

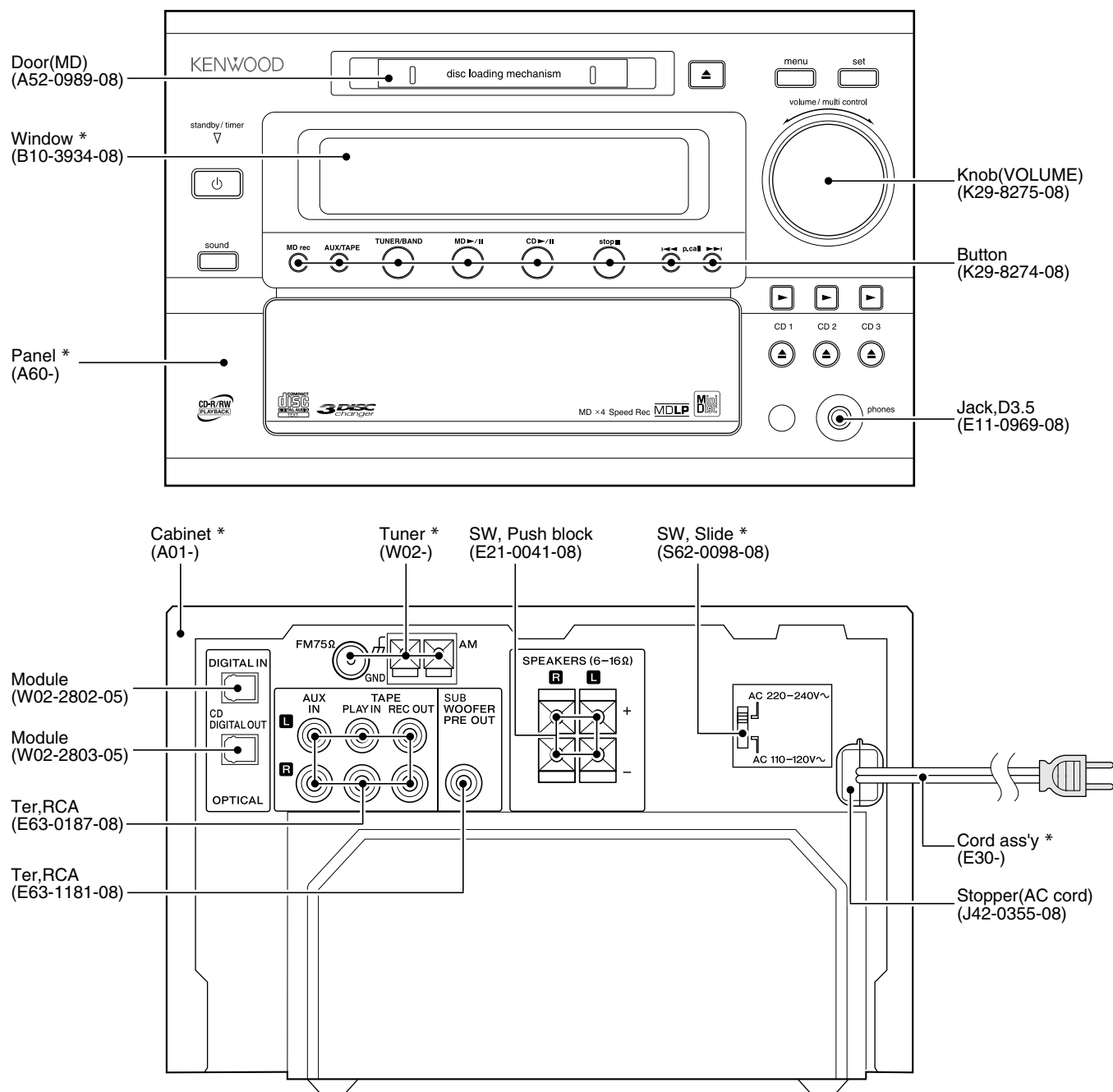
RD-HD5MD/HD7

SERVICE MANUAL

(HD-5MD/HD-7)

KENWOOD

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B51-5835-00 (K/K) 3430



* Refer to parts list on page 41.
Illust. is RD-HD5MD.

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

Caution : No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.



RD-HD5MD/HD7

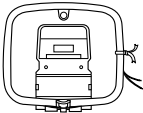
CONTENTS / ACCESSORIES / CAUTIONS

Contents


CONTENTS / ACCESSORIES / CAUTIONS	2	SCHEMATIC DIAGRAM	24
EXTERNAL VIEW	3	EXPLODED VIEW	36
DISASSEMBLY FOR REPAIR / ADJUSTMENT	4	PARTS LIST	41
CIRCUIT DESCRIPTION	5	SPECIFICATIONS	51
PC BOARD	18		

Accessories

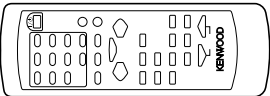
AM loop antenna (1)
(T90-0903-08)



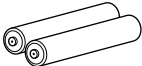
FM indoor antenna (1)
(T90-0904-08)



Remote control unit (1)
(A70-1625-08): RD-HD5MD(T)
(A70-1626-08): RD-HD5MD(M), RD-HD7(V)
(A70-1629-08): RD-HD7(E,T)
(A70-1630-08): RD-HD7(K)



Batteries (R6/AA) (2)



Cautions

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstances:

When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

- ❶ Remove the CD from the unit.
- ❷ Press the CD▶/II key.

CD NO DISC

- ❸ Wait for some time and verify that the display appears as above.
- ❹ Wait a few seconds and turn the unit OFF.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet :

Clock display
N.B. function

Stored contents which will back-up after power plug is unplugged from power outlet:

State of power (on or standby), A, P, S, Last input selection, AUX level, Volume control value, Balance control, Receiving band, Frequency, Preset station, Program Timer, TONE

Operation to reset

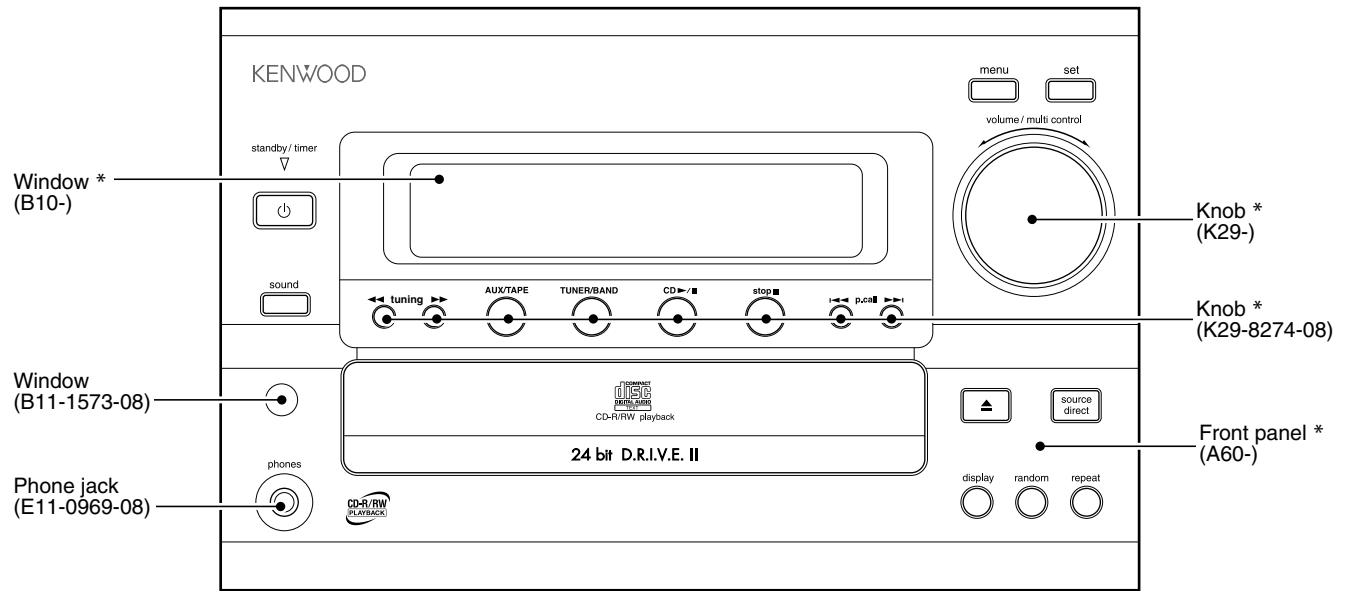
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet, then while holding the set key on the main unit depressed, plug the power cord again.

RD-HD5MD/HD7

EXTERNAL VIEW



* Refer to parts list on page 41.
Illust. is RD-HD7.

SYSTEM CONFIGURATION

SYSTEM NAME	RECEIVER	SPEAKER
HD-5MD	RD-HD5MD	LS-HD7
HD-7	RD-HD7	LS-HD7

RD-HD5MD/HD7

DISASSEMBLY FOR REPAIR / ADJUSTMENT

DISASSEMBLY FOR REPAIR

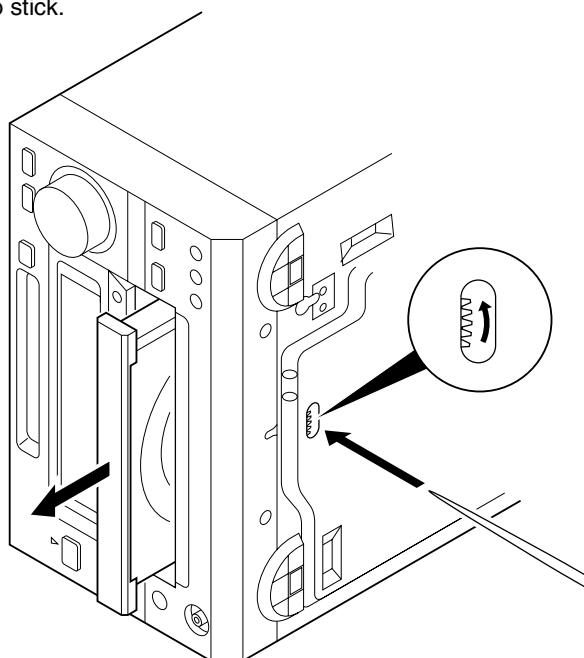
How to open the tray if it does not come out.

1. Turn the gear in the direction of the arrow using a bamboo stick and so on in the drawing through the hole on the loading chassis bottom.

Note : Do not use a screw driver like a metallic instead of a bamboo stick.

(There is a danger of damaging the gear.)

2. Pull out the tray frontward by hand when it comes just out.



ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION :		SELECTOR : EXCEPT TUNER MODE					
<1>	IDLE CURRENT (RD-HD7 only)	—	Connect a DC voltmeter to CP901 or CP902 CP901 (Lch) CP902 (Rch)	Volume: Minimum	VR203 (Lch) VR204 (Rch)	8 mV	

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

1. Initializing

1-1 Initializing Method

- While holding down the [SET] key, plugged in the power cord to AC power wall outlet.

1-2 Initializing Operation

- During the initial operation, the display shows "INITIAL-IZE" and after that it will be returned to standby condition.

2. Test Mode

2-1 Setting method of the Test Mode

Test Mode	Keys	Setting Method
CD Test Mode	CD PLAY PAUSE	Insert the AC cord to AC wall outlet while holding down the left key.
MD Test Mode	MD PLAY PAUSE	
MD Mecha. Test Mode	MD REC	

2-2 Cancel of the test mode

- Initialized and cancel the test mode if pulling out the power cord.

2-3 Operation of the Test Mode

Key	Operation	
	CD Test Mode	MD Test Mode
CD-PLAY/PAUSE (cyclically change the mode 05 and 03 by pressing the key.)	Tracking-Servo ON/OFF	-
MENU	CD double speed CD normal speed	-
P.CALL UP	<ul style="list-style-type: none"> CD Track number up The pickup travels outward in the stop mode. 	MD Track number up
P.CALL DOWN	<ul style="list-style-type: none"> CD Track number down The pickup travels inward in the stop mode. 	MD Track number down
SET	-	Stop the MD operation, and start the ALL-ERASE operation if the disc is recordable.

3. MD Test Mode for Adjustment

3-1 Contents of the Test Mode

3-2 Entering the Test Mode

- Turn the AC on while pressing the MD[REC] key.

3-3 Canceling the Test Mode

- Turn the AC off.

3-4 Key Operations for Adjustment

KEYS	OPERATION
Volume/multi-control	Select the mode or changed the adjustment value.
MD PLAY/PAUSE	Fix the mode or adjustment value. Skip to next step.
STOP	Cancel the selected mode and changed to menu page. Return to the state previous before.

3-5 Selection of Adjustment Test Mode

- Whenever the [volume/multi-control] knob is turned the adjustment test mode is selected.

No.	LCD	DESCRIPTION	SECTION
1	TEMP ADJU	The work of adjustment is unnecessary in this mode.	4-5
2	LDPWR ADJU	Laser power adjustment.	4-6
3	LDPWR CHEC	Laser power check.	4-6
4	EFBAL ADJU	EF balance adjustment (Traverse adjustment).	4-7
5	TE B. ADJ	Automatic EF balance adjustment.	4-8
6	FBIAS ADJU	Focus bias adjustment.	4-9
7	CREC-PLAY	Continuous recording mode. Continuous playback mode.	3-7 3-6

For more information on each adjustment mode, refer to each section of 4, "Electrical adjustment".

3-6 Continuous Playback Mode

(1) Setting of Continuous Playback Mode		
No.	Key	Display/Function
①	VOLUME	Select 「CREC-PLAY」
②		Ⓢ Load a recordable disc.
③	▶/⏸ (MD)	「CREC (ZZZZ)」 (CREC address)
		0300h cluster = recording start point
④	▶/⏸ (MD)	CPLAY ? CPLAY MID 「C = XXXX」 a = YY」 (error) C1 error ADIP error address MID = 0300h cluster
⑤	STOP	「CREC-PLAY」

3-7 Continuous Recording Mode

(1) Setting of Continuous Recording Mode		
No.	Key	Display/Function
①	VOLUME	Select 「CREC-PLAY」
②		Ⓢ Load a recordable disc.
③	▶/⏸ (MD)	「CREC (ZZZZ)」 (CREC address)
		0300h cluster = recording start point
④	STOP	CPLAY ? 「CREC-PLAY」

4. Electrical adjustment

4-1 Precaution during confirmation of Laser Diode emission

During adjustment, do not view the emission of a laser diode from just above for confirmation. This may damage your eyes.

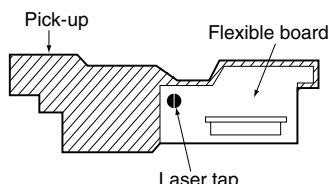
RD-HD5MD/HD7

CIRCUIT DESCRIPTION

4-2 Precaution on handling of Optical pick-up (KMS-260B)

The laser diode in an optical pick-up is easy to be subject to electrostatic destruction. Therefore, solder-bridge the laser tap on the flexible board when handling the optical pick-up.

When removing the flexible board from the connector, make a solder bridge in advance, then remove the board. Be careful not to remove the solder bridge before inserting the connector. Moreover, take careful measures against electrostatic destruction. The flexible board is cut easily. Handle the flexible board with care.



4-3 Precaution during adjustment

- 1) Perform the adjustment and confirmation marked with "O" in the order shown in the table when the parts below are replaced.

	Optical pick-up	BD board		
		IC7	D3	IC1,IC2,IC6
1.Temperature compensation offset adjustment	X	O	O	O
2.Laser power adjustment	O	O	X	O
3.Traverse adjustment	O	O	X	O
4.Focus bias adjustment	O	O	X	O
5.Error rate confirmation	O	O	X	O

- 2) In the test mode, perform the adjustment. After adjustment is completed, cancel the test mode.
- 3) Perform the adjustment in the order described.
- 4) Use the following tools and measurement equipment.
 - CD test disc TGYS-1
 - Laser power meter
 - Oscilloscope (with bandwidth of more than 40 MΩ) (Calibrate the probe before measurement.)
 - Digital voltmeter
 - Thermometer
- 5) Take care that VC and GND (ground) are not connected on the oscilloscope when two or more signals are monitored on the oscilloscope. (VC and GND are short-circuited in this case.)

4-4 Creating the recordable continuous recording disc

This disc is used for focus bias adjustment and error rate confirmation. How to create the recordable continuous recording disc is 3-7.

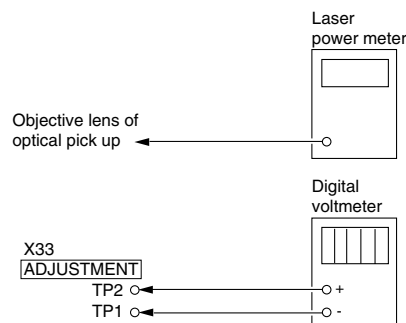
4-5 Offset Adjustment

No.	Key	Display/Function
1	Volume/multi-control	Select [TEMP ADJU]
2	PLAY	[TEMP=xx (yy)] (xx=compensation data, yy=setting temperature)
3	Volume/multi-control	Input "yy" with present temp..
4	PLAY	[TEMP=**SA] [TEMP ADJU] in writing data

4-6 Laser Power Check and Adjustment

Laser power setting in playback and recording modes.
Preparation

1. Remove the MD mechanism from the unit.
2. Connect the digital voltmeter to TP1 and TP2 on X33 pcb.
3. Remove the top plate from traverse unit.
4. Remove the magnetic head.
5. Remount the MD mechanism to the unit



1. Laser Power Adjustment

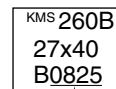
No.	Key	Display/Function
1	Volume/multi-control	[LDPWR ADJU] Load recordable disc
2	PLAY	Load the disc and laser on [a 0.9mW] \$xx] read power (xx=power value)
3	EJECT	Unload the disc and laser on
4	←→	Move the pickup to check the laser power with laser power meter sensor
5	Volume/multi-control	Adjust "xx" so that the power meter shows 0.9mW.
6	PLAY	[a 7.0mW] \$xx] writing power
7	Volume/multi-control	Adjust "xx" so that the power meter shows 7.0mW. This adjustment should be carried out in 15 secs.
8	PLAY	Laser power off Display shows [LDPWR ADJU] after [LDPWR<\$xx] to save the data in E2PROM

Start from No.2 if readjust.

2. Laser Power Check

No.	Key	Display/Function
1	Volume/multi-control	[LDPWR CHEC]
2	PLAY	[c 0.9mW] \$xx] (xx=0.85 to 0.95mW)
3	PLAY	[c 7.0mW] \$xx] Laser power meter: 7.0±1.0mW* VOM:optical pickup indication value ±10%*

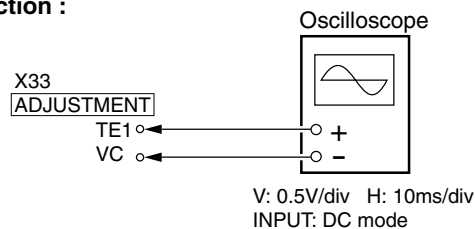
(optical pick-up label)



In this case, $I_{op} = 82.5 \text{ mA}$
 $I_{op}(\text{mA}) = \text{Reading of digital voltmeter}(\text{mV})/1(\Omega)$

4-7 EF Balance(Traverse Adjustment)

Connection :



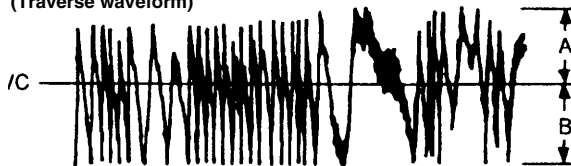
RD-HD5MD/HD7

CIRCUIT DESCRIPTION

1. Recordable Disc		
No.	Key	Display/Function
1		Connect the oscilloscope to TE1 and VC in X33 pcb
2	Volume/ multi-control	Select [EFBAL ADJU]
3		Load the recordable disc
4	PLAY	[EFBAL MO-W]
5	PLAY	[EF=\$:~MOW]
6	Volume/ multi-control	Write power adjustment. Adjust the waveform as follows.
7	PLAY	Display shows [EF=\$:~MOR] after [EFB=::xSAVE] to save the data in E2PROM. <i>Mode changes write to read</i> Focus and disc servo are on. Tracking servo off.
8	Volume/ multi-control	Read power adjustment. Adjust the waveform as follows.
9	PLAY	Save the data in E2PROM. Display shows [EFBAL MO-P]
	PLAY	Display shows [EF=\$:~MOP] (Pickup travels to search pits and tune the servo to on.)
10	Volume/ multi-control	Adjust the waveform as follows.
11	PLAY	Display shows [EFB=::xSAVE] to save the data in E2PROM. Display shows [EFBAL CD] disc motor stops.
12	EJECT	Unload disc.
2. Pre Master Test Disc(TGYS-1)		
No.	Key	Display/Function
1		Load the disc(TGYS-1).
2	PLAY	[EF=\$:~CD] servo is on
3	Volume/ multi-control	Adjust the waveform as follows.
4		Save the data in E2PROM. Display shows [EFB=::xSAVE] in brief time. [EF PHASE]
5	EJECT	Unload disc.

During this adjustment, the oscilloscope changes in units of about 2%. Adjust so that the waveform comes nearest to the specified value. (MO groove read power traverse adjustment)

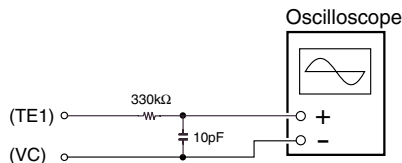
(Traverse waveform)



Specification : A = B

Notes :

1. Data is erased during MO write when a recorded disc is used for this adjustment.
2. If the traverse waveform is difficult to be monitored, connect an oscilloscope as shown in the figure below.



4-8 Automatic EF Balance Adjustment

- Automatic EF balance adjustment is performed.

No.	Key	Display/Function
①	Volume	[TE B. ADJ]
②		Load a recordable disc.
③	►/ MD	[TE B. MO-W] (Automatic Adjustment Mode Indication) =Low Reflection • Groove • Writing Power Automatic Adjustment
④		Display shows [EFB = XXX SAVE] in brief time and save the data in E2PROM. Next step
⑤		[TE B. MO-R] (Automatic Adjustment Mode Indication) =Low Reflection • Groove • Reading Power Automatic Adjustment
⑥		Display shows [EFB = XXX SAVE] in brief time and

No.	Key	Display/Function
⑦		save the data in E2PROM. Next step
⑧		[TE B. MO-P] (Automatic Adjustment Mode Indication) =Low Reflection • PIT • Reading Power Automatic Adjustment
⑨		Display shows [EFB = XXX SAVE] in brief time and save the data in E2PROM. Next step
⑩		[EFBAL CHANGE] (Unload a disc)
⑪	►/ MD	Load a pre-master test disc(TGYS-1). [TE B. CD] (Automatic Adjustment Mode Indication) =High Reflection • PIT • Reading Power
⑫		Display shows [EFB = XXX SAVE] in brief time and save the data in E2PROM. [EF PHASE] menu

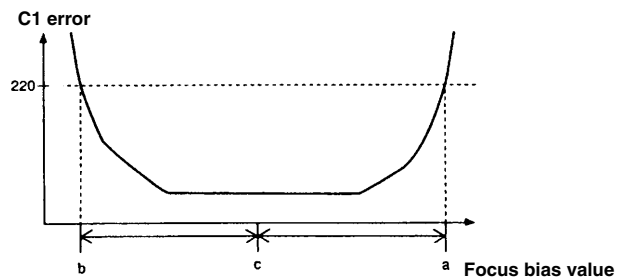
4-9 Focus Bias Adjustment

Use the special disc(continuous recorded disc)

No.	Key	Display/Function
1	Volume/multi-control	Select [FBIAS ADJU]
2		Load the disc.
3	PLAY	[a=xx yyyy/] point a (xx=focus bias, yyyy=C1 error)
4	Volume/multi-control	Adjust "yyyy" to 220~
5	PLAY	[b=xx yyyy/] point b
6	Volume/multi-control	Adjust "yyyy" to 220~
7	PLAY	[xx yyyy/] point c Check "yyyy" within 50
8	PLAY	Display shows [aa bb cc(xx)] focus bias adjust (aa= point a,bb=b,cc=c)

* Notes :

1. The relation between the C1 error and focus bias value is shown in the figure below. Points "a" and "b" in the figure are detected by the above adjustment. Focal position "C" is automatically obtained from points "a" and "b" by calculation.
2. The C1 error rate fluctuates. Therefore, perform the adjustment according to the observed mean value.



4-10 Error Rate Check

No.	Key	Display/Function
1. CD Error Rate		
1	Volume/ multi-control	[CREC-PLAY]
2		Load the test disc(TGYS-1)
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 20) yy=AIDP error
4	STOP	[CREC-PLAY]
5	EJECT	Unload disc.
2. MO Error Rate		
No.	Key	Display/Function
1	Volume/ multi-control	[CREC-PLAY]
2		Load the recordable disc
3	PLAY	Display shows [CPLAY MID] Access end [c=xxxx a=yy] xxxx=C1 error (lower 50) yy=AIDP error(00)
4	STOP	[CREC-PLAY]
5	EJECT	Unload disc.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

5. Pin Description of Microprocessor

Pin No.	Pin Name	I/O	Pin Description
1	PLL DATA	O	Data output to PLL IC.
2	PLL CLK	O	Clock output to PLL IC.
3	FAN CONTROL	-	Unused.
4	SYS DATA	O	Data output to M61510FP (IC204) and M62429P (IC203).
5	M61510FP CLK	O	Data output to M61510FP (IC204).
6	M62429P CLK	O	Clock output to M62429P (IC203).
7	CE	I	Detection port of AC off.
8	BYTE	-	Connected to ground.
9	CNVSS	-	Connected to ground.
10	XCIN	I	Clock input (32.768kHz).
11	XCOUT	O	Clock output (32.768kHz).
12	RESET	I	Reset signal input for microprocessor.
13	XOUT	O	Main clock output (1MHz).
14	VSS	-	Connected to ground.
15	XIN	I	Main clock input (1MHz).
16	VCC	-	Power supply.
17	NMI	-	Connected to VCC.
18	REMOCON IN	I	Input port of remote control signal.
19	RDS CLK	I	RDS clock input (E/T type only).
20	BL KCK	I	Clock signal (88.2kHz) output.
21	PLL H/L	O	Switching port of reference current for CD DSP.
22	STEREO	I	Stereo signal input of tuner.
23	SD	I	Detection terminal of SD signal for TUNER.
24	LIMIT	I	Detection port of CD limit switch.
25	CD D. ON	-	Unused.
26	MLD	O	Command load signal output to CD DSP.
27	RDS DATA	I	RDS data input (E/T type only).
28	CD SPEED	O	Play back output port of hi-speed for CD.
29	MD RX	I	Data input from MD mechanism microprocessor.
30	MD TX	O	Transmission data output to MD mechanism microprocessor.
31	FLT DATA	O	Data output to FL driver.
32	RXD	I	Data input from EEPROM writer.
33	FLT CLK	O	Clock output to FL driver.
34	FLT CS	O	CS output to FL driver.
35	M DATA	O	Command data output to CD DSP.
36	STAT	I	Status signal input from CD DSP.
37	MLCK	O	Command clock signal output to CD DSP.
38	MD CE	O	CE of MD mechanism .
39	MD RESET	O	Reset signal output to MD mechanism.
40	BLUE LED CONT	O	Control port of blue led.
41	NC	-	Unused.
42	SUBQ	I	Data input for CD sub Q data.
43	CD SQCK	O	Clock output for CD sub Q data.
44	R/W SELECT	I	GCTL & APC control.
45	OFFTPK	O	Switching port of capacitance for RF bright side envelope detection.
46	FLT RESET	O	Reset signal output to FL driver.
47	D MUTE	O	Mute control for CD DSP.
48	CD LD ON	O	Control port of CD laser diode.
49	CD RESET	O	Reset output to DSP IC.
50	CD DC OFF	O	Power control of 4channel BTL driver.
51	DISC OPEN	O	Control port of CD tray motor driver.
52	DISC UP	O	Control port of CD lift motor driver.
53	DISC DOWN	O	Control port of CD lift motor driver.
54	DISC CLOSE	O	Control port of CD tray motor driver.
55	TMC	O	Speed control port for CD mechanism.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
56	CD SW4	I	Unclamp switch (SW4) input of CD mechanism.
57	CD SW5	I	T.U High-A switch (SW5) input of CD mechanism.
58	CD SW7	I	Holder Home switch (SW7) input of CD mechanism.
59	CD SW6	I	T.U High-B switch (SW6) input of CD mechanism.
60	CD SW3	I	Load /Clamp switch (SW3) input of CD mechanism.
61	CD SW11	I	Photo2 (SW11) input of CD mechanism.
62	VCC	-	Power supply for microprocessor.
63	CD BOSS	I	Boss sensor input of CD mechanism.
64	VSS	-	GND
65	CD SW8	I	Holder-H switch (SW8) input of CD mechanism.
66	CD SW2	I	Tray Close/HP switch (SW2) input of CD mechanism.
67	CD SW1	I	Tray Open switch (SW1) input of CD mechanism.
68	SENSOR	I	Sensor input of CD mechanism.
69	MD D. CON	O	Digital control port for level shift IC (IC206).
70	PROTECT2	I	Detection port of protection2.
71	PROTECT1	I	Detection port of protection1.
72~74	OPTION(1~3)	-	Unused.
75	POWER RELAY	O	Power relay control.
76	AMUTE	O	Audio mute control.
77	SP RELAY	O	Speaker relay control.
78~80	OPTION(4~6)	-	Unused.
81	MD	O	Mode control data output to D/A converter.
82	MC	O	Mode control clock output to D/A converter.
83	ML	O	Mode control latch output to D/A converter.
84	ST BY LED G	O	Timer LED (green) control terminal.
85	ST BY LED R	O	Standby LED (red) control terminal.
86	ENCODER A	I	Input port of rotary encoder (volume).
87	ENCODER B	I	Input port of rotary encoder (volume).
88	TU DC OFF	O	Power control port for tuner.
89	FAN IN	I	Detection port for fan level.
90~92	KEY(1~3)	I	Key signal inputs.
93	LEVEL L	I	Input port of REC amplifier.
94	LEVEL R	I	Input port of REC amplifier.
95	PLL CE	O	PLL chip enable.
96	AVSS	-	Analog ground.
97	N.C	-	Unused.
98	VREF	-	A/D,D/A reference voltage.
99	AVCC	-	Microprocessor power supply.
100	PLL DO	I	Input of PLL IC data.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

6. Pin Description of IC's

6-1 Power Amplifier : STK402 (IC1) RD-HD5MD only

Pin No.	Pin Name	Pin Description
1	IN1	Main Rch input
2	NF1	Main Rch feed back
3	NC	Unused
4	PVCC+	Pre power supply (+B)
5	BIAS	Bias connection pin
6	VE1+	Main Rch (+) output
7	VE1-	Main Rch (-) output
8	VCC+	Power supply (+B)
9	VCC-	Power supply (-B)
10	VE2+	Main Lch (+) output
11	VE2-	Main Lch (-) output
12	PVCC-	Pre power supply (-B)
13	GND	GND
14	NF2	Main Lch feed back
15	IN2	Main Lch input

6-2 Audio Selector / E. Volume IC : M61510FP (IC204)

Pin No.	Pin Name	I/O	Pin Description
1	REF IN	I	Input pin of the reference amplifier.
2	REF OUT	O	Output pin of the reference amplifier.
3,40	CD(L,R)	I	Input pin of the CD.
4,39	MD(L,R)	I	Input pin of the MD.
5,38	TAPE(L,R)	I	Input pin of the Tape play.
6,37	TUNER(L,R)	I	Input pin of the TUNER.
7,36	AUX(L,R)	I	Input pin of the AUX.
8,35	IN VOL OUT(1,2)	O	Output pin of the input volume 1 and 2.
9,34	IN REC-C	O	Output pin of the volume input selector B1and B2.
10,33	VSEL A OUT	-	Capacitor connection pin for the volume changing noise reduction.
11,32	LOUD(1,2)	-	Frequency characteristic setting pin in the loudness part.
12,31	BI(1,2)	-	Frequency characteristic setting pin in the tone control (Bass).
13,30	BO(1,2)	-	Frequency characteristic setting pin in the tone control (Bass).
14,29	MI(1,2)	-	Frequency characteristic setting pin in the tone control (Mid).
15,28	MO(1,2)	-	Frequency characteristic setting pin in the tone control (Mid).
16,27	TRE(1,2)	-	Frequency characteristic setting pin in the tone control (Treble).
17,26	VSEL B OUT(1,2)	O	Output pin of the volume input selector B1and B2.
18,25	VOL IN(1,2)	I	Input pin of the main volume.
19,24	VOL OUT(1,2)	O	Output pin of the main volume.
20	VCC	-	Power supply (+5.0V)
21	DATA	I	Input pin of the serial data.
22	CLK	I	Clock input.
23	GND	-	GND
41	REC-B2	O	REC-B2 output.
42	REC-B1	O	REC-B1 output.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

6-3 Rec Amplifier : BA6138 (IC205)

Pin No.	Pin Name	I/O	Pin Description
1	MUTE	-	Mute control pin(Unused)
2	OUT1	O	L ch output
3	DET1	-	Unused
4	IN1	I	Input of REC output (L ch)
5	GND	-	GND
6	IN2	I	Input of REC output (R ch)
7	DET2	-	Unused
8	OUT2	O	R ch output
9	VCC	-	Power supply (+5.0V)

6-4 DSP IC : MN6627482WB(IC502)

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
1	BCLK	O	Bit clock output for SRDATA.		
2	LRCK	O	L, R clock signal output.		
3	SRDATA	O	Serial data output.		
4	DVDD1	-	Digital power supply.		
5	DVSS1	-	Digital ground.		
6	TX	O	Digital audio interface signal output.		
7	MCLK	I	CPC command clock signal input.		
8	MDATA	I	CPU command data signal input.		
9	MLD	I	CPU command load signal input.		Load
10	SENSE	O	Sense signal output(OFT, FESL, NACEND, NAJEND, SFG).		
11	FLOCK	O	Focus servo signal output.		
12	TLOCK	O	Tracking servo signal output.		
13	BLKCK	O	Sub code block clock output. fBLKCK = 75Hz		
14	SQCK	I	Sub code Q data clock input pin.		
15	SUBQ	O	Sub code Q data signal output pin..		
16	DMUTE	I	Connected to be ground.	Mute	
17	STAT	O	Status signal output.		
18	RST	I	Reset signal input.		Reset
19	SMCK	O	8.4672MHz clock signal output when MSEL is H. 4.2336MHz clock signal output when MSEL is L.		
20	PMCK	O	88.2kHz clock signal output when default. Play signal output when command is carry out.	Play	
21	TRV	O	Traverse forced feed output.		
22	TVD	O	Traverse drive output.		
23	PC	O	Spindle motor on signal output. L : ON (Default)		
24	ECM	O	Drive signal output for spindle motor (forced mode output).		
25	ECS	O	Drive signal output for spindle motor (servo error signal output).		
26	KICK	O	Kick pulse output for tracking driver.		
27	TRD	O	Tracking servo drive output.		
28	FOD	O	Focus drive output.		
29	VREF	I	Reference power supply for DA output section.		
30	FBAL	O	Focus balance adjusting output.		
31	TBAL	O	Tracking balance adjusting output.		
32	FE	I	Focus error signal input (analog input).		
33	TE	I	Tracking error signal input (analog input).		
34	RFENV	I	RF envelope signal input (analog input).		
35	VDET	I/O	Vibrating detection signal input when default. Software vibrating detection monitor output when command is executed.	Detected	
36	OFT	I	Off track signal input.	Off Track	

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
37	TRCRS	I	Track cross signal input pin (analog input).		
38	RFDET	I	RF detector signal input pin.		Detected
39	BDO	I	Drop out signal input.	Drop Out	
40	LDON	O	Laser on signal output.	ON	
41	PLL2	I/O	PLL loop filter switching pin.		
42	TOFS	O	Tracking offset adjusting output.		
43	WVEL	O	Double speed status signal output.	Double Speed	
44	ARF	I	RF signal input.		
45	IREF	I	Reference current input pin.		
46	DRF	I	DSL bias pin.		
47	DSL2	I/O	DSL loop filter pin.		
48	PLL2	I/O	PLL loop filter pin.		
49	VCO2	I/O	VCO loop filter pin.		
50	AVDD2	-	Analog power supply for DSL, PLL, and DA output section.		
51	AVSS2	-	Analog ground for DSL, PLL, and DA output section.		
52	EFM/CK384	O	EFM signal output when IOSEL is H. 16.9344MHz clock output when IOSEL is L.		
53	PCK/DSL2	O	PLL clock output (fPCK = 4.3218MHz) or DSL balance output.		
54	VCO2	I/O	Jitter free VCO loop filter pin.		
55	SUBC	O	Sub code serial output.		
56	SBCK	I	Clock input for sub code serial output.		
57	VSS	-	GND		
58	X1	I	Crystal oscillation circuit input. f = 16.9344MHz, 33.8688MHz		
59	X2	O	Crystal oscillation circuit output. f = 16.9344MHz, 33.8688MHz		
60	VDD	-	Power supply for crystal oscillation circuit.		
61	BYTCK	O	Bite clock signal output when IOSEL is H. Traverse stop signal output when IOSEL is L.	Stop Mode	
62	CLDCK	O	General IO pin when default. Sub code frame clock signal output (fCLDCK = 7.35kHz) when command is carry out.		
63	FCLK	O	General IO pin when default. Crystal frame clock signal output (fFCLK = 7.35kHz) when command is carry out.		
64	IPFLAG	O	Interpolation flag signal output.		
65	FLAG	O	Flag signal output.		
66	CLVS	O	Spindle servo phase synchronism signal output.	CLV	
67	CRC	O	Sub code CRC checked output.	OK	NG
68	DEMPH	O	De-emphasis detection signal output.	ON	
69	RESY	O	Re-frame synchronism signal RESY output of frame synchronism when IOSEL is H. H : Synchronized L : Non synchronized		
70	IOSEL	I	Switching pin for mode.		
71	TEST	I	Test pin.	Normal	
72	AVDD1	-	Analog power supply for audio output section.		
73	OUTL	O	L ch audio output.		
74	AVSS1	-	Analog ground for audio output section.		
75	OUTR	O	R ch audio output.		
76	RSEL	I	<ul style="list-style-type: none"> RF signal polarity assignment pin when default. RSEL is H when bright level is H. RSEL is L when bright level is L. General IO pin when command is executed. RF signal polarity assignment is set by command. 		

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description	Active	
				H	L
77	CSEL	I	Designation of oscillation frequency. H : f = 33.8688MHz L : f = 16.9344MHz		
78	PSEL	I	Test pin (Normal : L) when IOSEL is H. SRDATA input when IOSEL is L.		
79	MSEL	I	SMCK output when IOSEL is H. Switching pin of frequency. H : SMCK = 8.4672MHz L : SMCK = 4.2336MHz LRCK input when IOSEL is L. H : Lch data, L : Rch data SMCK = 4.2336MHz (Fixed)		
80	SSEL	I	SUBQ output mode switching pin when IOSEL is H. H : Q code buffer use mode L : CLDCK synchronism mode BCLK input when IOSEL is L. Q code buffer use mode		

6-5 D/A Converter : PCM1742 (IC507)

Pin No.	Pin Name	I/O	Description
1	BCK	I	Audio data bit clock input.
2	DATA	I	Audio data digital input.
3	LRCK	I	Audio data latch enable input.
4	DGND	-	Digital ground.
5	VDD	-	Digital power supply (+3.3V).
6	VCC	-	Analog power supply (+5V).
7	VOUTL	O	Analog output for L-channel.
8	VOUTR	O	Analog output for R-channel.
9	AGND	-	Analog ground.
10	VCOM	-	Common voltage decoupling.
11	ZEROR	O	Zero flag output for R-channel.
12	ZEROL	O	Zero flag output for L-channel.
13	MD	I	Mode control data input.
14	MC	I	Mode control clock input.
15	ML	I	Mode control latch input.
16	SCK	I	System clock input.

6-6 Digital Signal Processor : CXD2664R (X33, IC1)

Pin No.	Pin Name	I/O	Pin Description
1	MNT0	I/O	Monitor output.
2~4	MNT(1~3)	O	Monitor output.
5	VDC0	-	CORE power supply.
6	SWDT	-	Data input for microcomputer serial interface.
7	SCLK	-	Shift clock input for microcomputer serial interface.
8	XLAT	-	Latch input for microcomputer serial interface. Latched at the falling edge.
9	VSC0	-	CORE GND.
10	SRDT	O	Data output for microcomputer serial interface.
11	SENS	O	Outputs the internal status corresponding to the microcomputer serial interface address.
12	XRST	I	Reset input. Low : reset
13	SQSY	O	Disc subcode Q sync/ADIP sync output.
14	DQSY	O	U-bit CD or MD format subcode Q sync output when the digital in source is CD or MD.
15	RPWR	I	Laser power switching. High : recording power, Low : playback power
16	XINT	O	Interrupt request output. Low when the interrupt status occurs.
17	TX	I	Enable signal input for recording data output. High : enable
18	VDIO0	-	I/O power supply.
19	OSCI	I	Crystal oscillation circuit input.
20	OSCO	I/O	Crystal oscillation circuit output. (Input when OSCN = high.)

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
21	OSCN	I	Control for feedback resistor and inverter inside oscillation circuit.
22	VSIO0	-	I/O GND.
23	XTSL	I	OSCI pin input frequency switching. 512Fs (22.5792MHz) when XTSL 1 (command) =low and XTSL = high. 1024Fs (45.1584MHz) when XTSL 1 = low and XTSL = low. 2048Fs (90.3168MHz) whe
24,25	DIN (0,1)	I	Digital audio interface signal input (0,1).
26	DOUT	O	Digital audio interface signal output.
27	DATAI	I	3-wire data input for recording.
28	LRCKI	I	3-wire LR clock input for recording.
29	XBCKI	I	3-wire bit clock input for recording.
30	VDC1	-	CORE power supply.
31	VSC1	-	CORE GND.
32	ADDT	I	Data input from A/D converter.
33	DADT	O	REC monitor output/decoding audio data output.
34	LRCK	O	LR clock output to external audio block.
35	XBCK	O	Bit clock output to external audio block.
36	F256	O	256Fs output.
37	XWE	O	External DRAM write enable output.
38	XOE	O	External DRAM read enable output.
39	DRVDD0	-	DRAM interface power supply.
40	DRVSS0	-	DRAM interface GND.
41	A11	O	External DRAM address output.
42~45	D3,D0,D2,D1	I/O	External DRAM data bus.
46	XCAS	O	External DRAM XCAS output.
47	XRAS	O	External DRAM XRAS output.
48~56	A09~A10,A07,A00, A06,A01,A05,A02	O	External DRAM address output.
57	VDC2	-	CORE power supply.
58	VSC2	-	CORE GND.
59,60	A04,A03	O	External DRAM address output.
61	DRVDD1	-	DRAM interface power supply.
62	DRVSS1	-	DRAM interface GND.
63,64	TEST(0,1)	I	Connect to the analog power supply.
65	TEST2	O	No connected.
66	AVD1	-	Analog power supply.
67	ASYO	O	Playback EFM full-swing output.
68	ASYI	I	Playback EFM comparator slice voltage input.
69	BIAS	I	Playback EFM comparator bias current input.
70	RFI	I	Playback EFM RF signal input.
71	AVS1	-	Analog GND.
72	PCO	O	Phase comparison output for master PLL of playback digital PLL and recording EFM PLL.
73	FILI	I	Filter input for master PLL of playback digital PLL and recording EFM PLL.
74	FILO	O	Filter output for master PLL of playback digital PLL and recording EFM PLL.
75	CLTV	I	Internal VCO control voltage input for master PLL of playback digital PLL and recording EFM PLL.
76	PEAK	I	Peak hold signal input for quantity of light.
77	BOTM	I	Bottom hold signal input for quantity of light.
78	ABCD	I	Signal input for quantity of light.
79	FE	I	Focus error signal input.
80	AUX1	I	Auxiliary input 1.
81	VC	I	Center voltage input.
82	ADIO	O	Test. No connected.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
83	ADRT	I	Voltage input for the upper limit of the A/D converter operating range.
84	ADRB	I	Voltage input for the lower limit of the A/D converter operating range.
85	SE	I	Sled error signal input.
86	TE	I	Tracking error signal input.
87	AVD2	-	Analog power supply.
88	AVS2	-	Analog GND.
89	DCHG	I	Connect to the low-impedance power supply.
90	APC	I	Error signal input for laser digital APC.
91	ADFG	I	ADIP binary FM signal input.
92	VDIO1	-	I/O power supply.
93	VSIO1	-	I/O GND.
94	F0CN	O	Current source setting output for RF amplifier.
95	VDC3	-	CORE power supply.
96	VSC3	-	CORE GND.
97	XLRF	O	Control latch signal output for RF amplifier.
98	CKRF	O	Control clock signal output for RF amplifier.
99	DTRF	O	Control data signal output for RF amplifier.
100	APCR	O	Reference PWM output for laser APC.
101	LDDR	O	PWM output for laser digital APC.
102	TRDR	O	Tracking servo drive PWM output (-).
103	TFDR	O	Tracking servo drive PWM output (+).
104	FFDR	O	Focus servo drive PWM output (+).
105	FRDR	O	Focus servo drive PWM output (-).
106	FS4	O	4Fs output.
107	SRDR	O	Sled servo drive PWM output (-).
108	SFDR	O	Sled servo drive PWM output (+).
109	SPRD	O	Spindle servo drive output. (PWM (-) or polarity)
110	SPFD	O	Spindle servo drive output. (PWM (+) or PWM absolute value)
111	FGIN	I	Spindle CAV servo FG input.
112~114	TST(1~3)	I	Test. Connect to GND.
115	EFMO	O	Low during playback. EFM (encoding data) output during recoding.
116	VDIO2	-	I/O power supply.
117	VSIO2	-	I/O GND.
118	VDC4	-	CORE power supply.
119	VSC4	-	CORE GND.
120	MDDT1	I	MD DATA mode 1 switching input. (Low : normal mode, High : MD-DATA mode 1)

6-7 MD RF AMP : CXA2523AR (X33, IC2)

Port No.	Port Name	I/O	Description	Active	
				H	L
1	I	I	RF signal (I) input.		
2	J	I	RF signal (J) input.		
3	VC	O	Center voltage input.		
4~7	A~D	I	Current input pin of main beam servo signal (A~D).		
8, 9	E, F	I	Current input pin of main beam servo signal (E,F).		
10	PD	I	APC amplifier input.		
11	APC	O	Laser APC output.		
12	APCREF	I	Reference voltage input for laser power setting.		
13	GND	-	GND		
14	TEMP I	I	Temperature sensor connection pin.		
15	TEMP R	I	Temperature sensor connection pin (outputs reference voltage).		
16	SWDT	I	Control data signal input from DSP (IC1).		
17	SCLK	I	Control clock signal input from DSP (IC1).		
18	XLAT	I	Control latch signal input from DSP (IC1).		Latch
19	XSTBY	I	Standby setting pin.	Normal ope.	Standby

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Description	Active	
				H	L
20	F0CNT	I	Internal current setting pin.		
21	VREF	O	Reference voltage output (unused).		
22	EQADJ	I/O	Center frequency setting pin for EQ.		
23	3TADJ	I/O	Center frequency setting pin for BPF3T.		
24	VCC	-	Power supply.		
25	WBLADJ	I/O	Center frequency setting pin for BPF22.		
26	TE	O	Tracking error signal output.		
27	CSLED	-	Capacitor (LPF) connection pin for sled error signal.		
28	SE	O	Sled error signal output.		
29	ADFM	O	ADIP FM signal output.		
30	ADIN	I	ADIP signal comparator input.		
31	ADAGC	-	ADIP AGC capacitor connection pin.		
32	ADFG	O	ADIP binary signal output.		
33	AUX	O	Auxiliary output /temperature signal output.		
34	FE	O	Focus error signal output.		
35	ABCD	O	I-V amplifier output pin.		
36	BOTM	O	Bottom hold signal output of RF/ABCD.		
37	PEAK	O	Peak hold signal output of RF/ABCD.		
38	RF	O	RF equalizer output pin.		
39	RFAGC	-	Capacitor connection pin for RF AGC.		
40	AGCI	I	RF AGC input.		
41	COMPO	O	User comparator output pin (unused).		
42	COMPP	I	User comparator non-inversion input pin.		
43	ADDC	I/O	Capacitor connection pin of feed-back circuit for ADIP amplifier.		
44	OPO	O	User OP amplifier output (unused).		
45	OPN	I	User OP amplifier inversion input.		
46	RFO	O	RF amplifier output.		
47	MORFI	I	Input pin of RF signal for groove with AC coherence.		
48	MORFO	O	Output pin of RF signal for groove.		

6-8 4ch BTL Driver : BA5815FM (X33, IC4)

Pin No.	Pin Name	I/O	Pin Description
1	FWD	I	Input for loading forward.
2	REV	I	Input for loading reverse.
3	VCNT	I	Output control terminal for loading.
4	FIN1	I	CH1 PWM forward input.
5	RIN1	I	CH1 PWM reverse input.
6	FIN2	I	CH2 PWM forward input.
7	RIN2	I	CH2 PWM reverse input.
8	VCC1	-	VCC1(PRE,LD,CH1,CH2)
9	L (+)	O	Inverted output of loading.
10	L (-)	O	Not inverted output of loading.
11	SL (-)	O	Inverted output of CH2.
12	SL (+)	O	Not inverted output of CH2.
13	FCS (-)	O	Inverted output of CH1.
14	FCS (+)	O	Not inverted output of CH1.
15	TRK (+)	O	Not inverted output of CH4.
16	TRK (-)	O	Inverted output of CH4.
17	SP (-)	O	Not inverted output of CH3.
18	SP (+)	O	Inverted output of CH3.
19	GND	-	GND
20	VCC2	-	VCC2(CH3,CH4)
21	MUTE	I	Mute control.
22	OPOUT3	O	Output of CH3 OP-AMP.

RD-HD5MD/HD7

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
23	OPIN3 (-)	I	Inverted input of CH3 OP-AMP.
24	OPIN3 (+)	I	Not inverted input of CH3 OP-AMP.
25	OPOUT4	O	Output of CH4 OP-AMP.
26	OPIN4 (-)	I	Inverted input of CH4 OP-AMP.
27	OPIN4 (+)	I	Not inverted input of CH4 OP-AMP.
28	BIAS	I	Input for reverse voltage (bias).

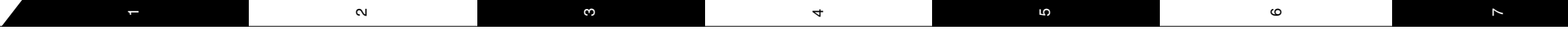
6-9 Head Coil Driver : BD7910FV (X33, IC8)

Pin No.	Pin Name	I/O	Pin Description
1	VregIN	I	Regulator Input & Regulator Power Supply
2	RegGND	-	Regulator GND
3	RegSEL	-	Regulator Select Pin
4	VG	I	Drive Voltage Input for Power MOS
5	VDD	I	Input of Supply Voltage for EFM Signal Source
6	PDGND	-	Pre Drive GND
7	EFM	I	EFM Signal Input
8	MUTE	-	Mute Control (High : Active)
9	NC	-	Open
10	NC	-	GND
11	NC	-	GND
12	V0D2	-	Sync Output
13	HGND	-	H Bridge Section GND
14	V0D1	O	Sync Output
15	V0S1	O	Source Output
16	HVDD	-	H Bridge Section Power Supply
17	V0S2	O	Source Output
18	RegDRV	O	PNP Drive Output for Regulator
19	RegOUT	O	Regulator Output
20	RegNF	-	Regulator Feed Back Pin

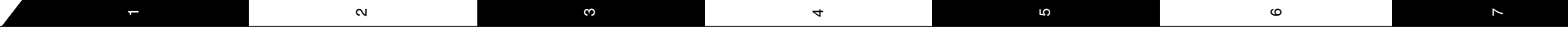
6-10 A/D, D/A Converter : AK4550VT(X33, IC10)

Pin No.	Pin Name	I/O	Pin Name
1	VCOM	O	Output Pin of Common Voltage
2	AINR	I	Input Pin of Analog R channel
3	AINL	I	Input Pin of Analog L channel
4	VSS	-	GND
5	VDD	-	Analog Power Supply
6	DEM0	I	De-emphasis Control Pin
7	DEM1	I	De-emphasis Control Pin
8	SDTO	O	Audio Serial Data Output Pin
9	SDTI	I	Audio Serial Data Input Pin
10	LRCK	I	L/R Channel Clock Pin
11	MCLK	I	Master Clock Input Pin
12	SCLK	I	Audio Serial Data Clock Pin
13	PWAD	I	ADC Power Down & Reset Mode Pin "L" : Power Down Mode
14	PWDA	I	DAC Power Down & Reset Mode Pin "L" : Power Down Mode
15	AOUTL	O	Output Pin of Analog L channel
16	AOUTR	O	Output Pin of Analog R channel

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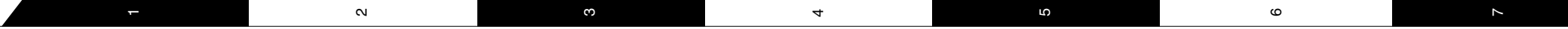
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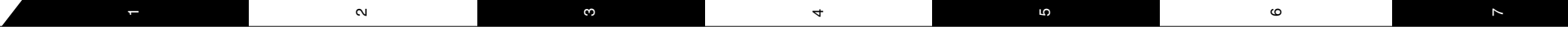
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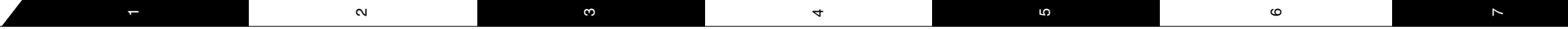
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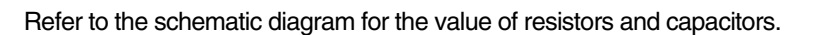


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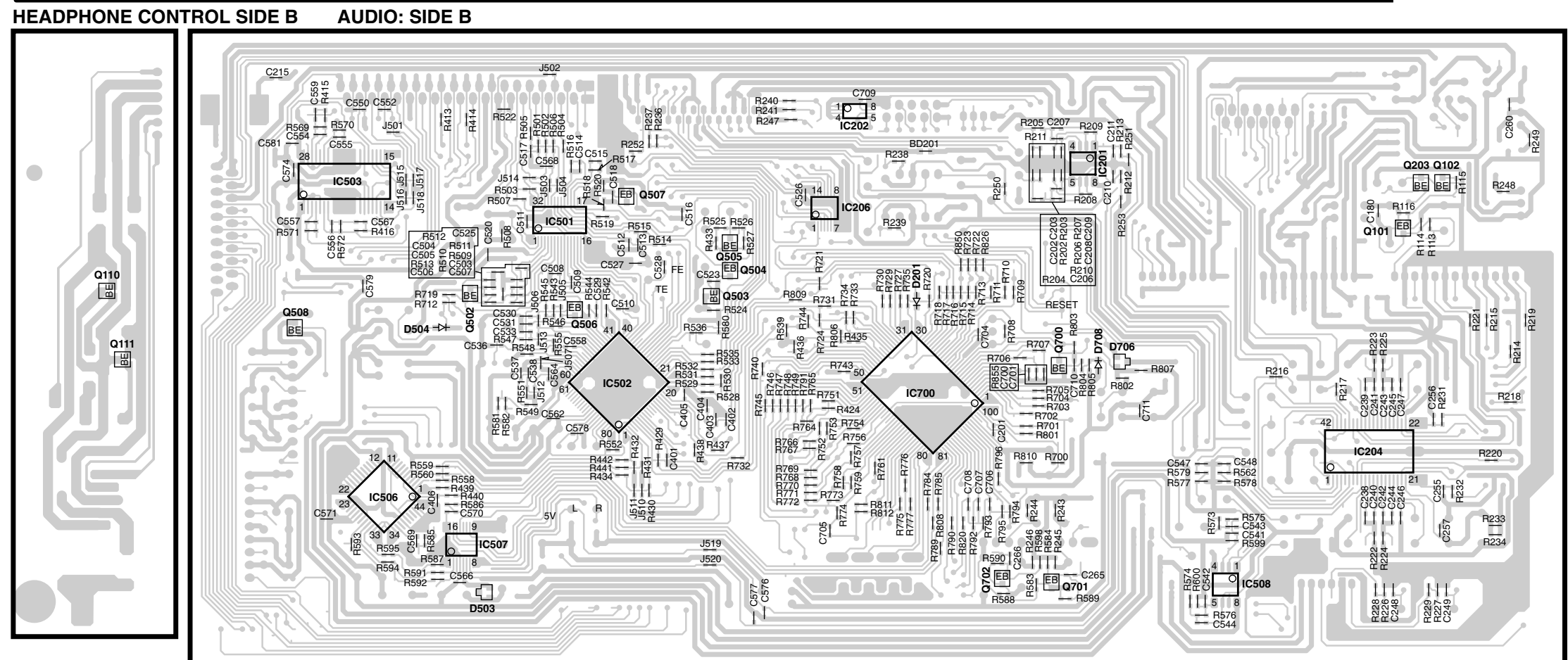
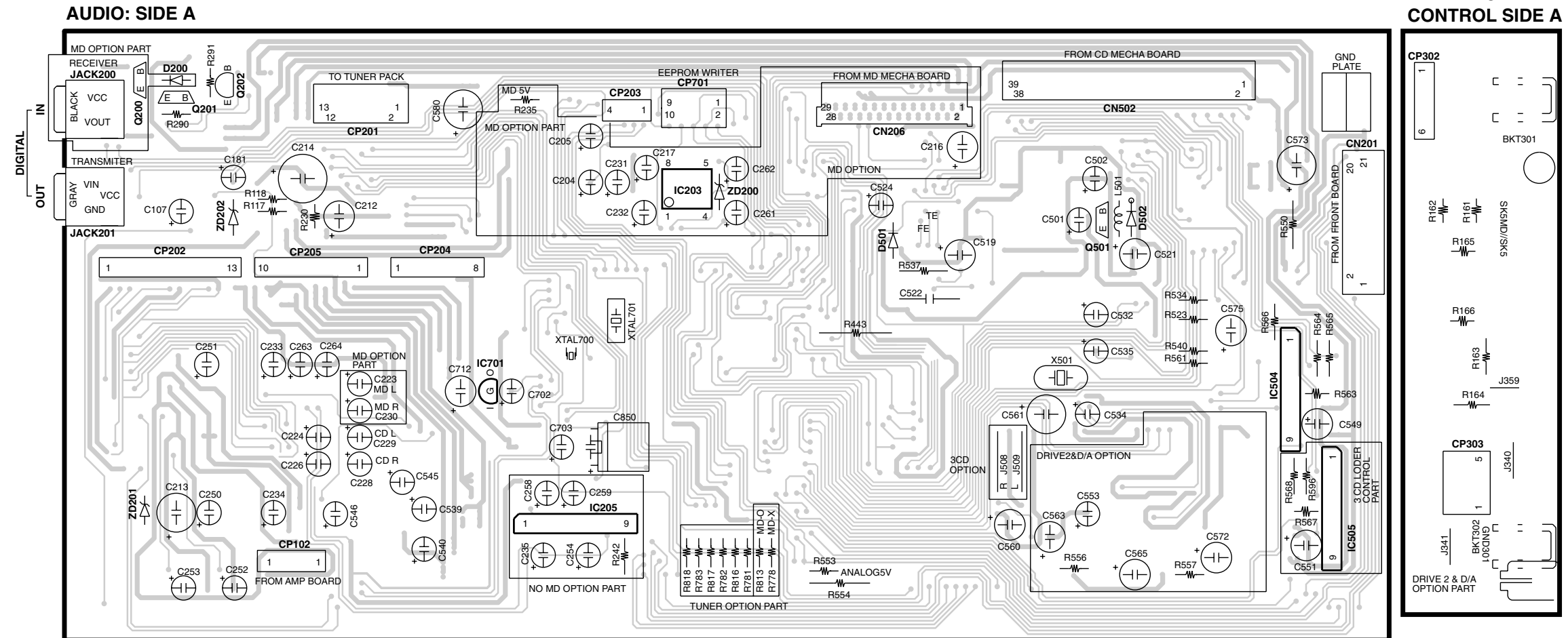


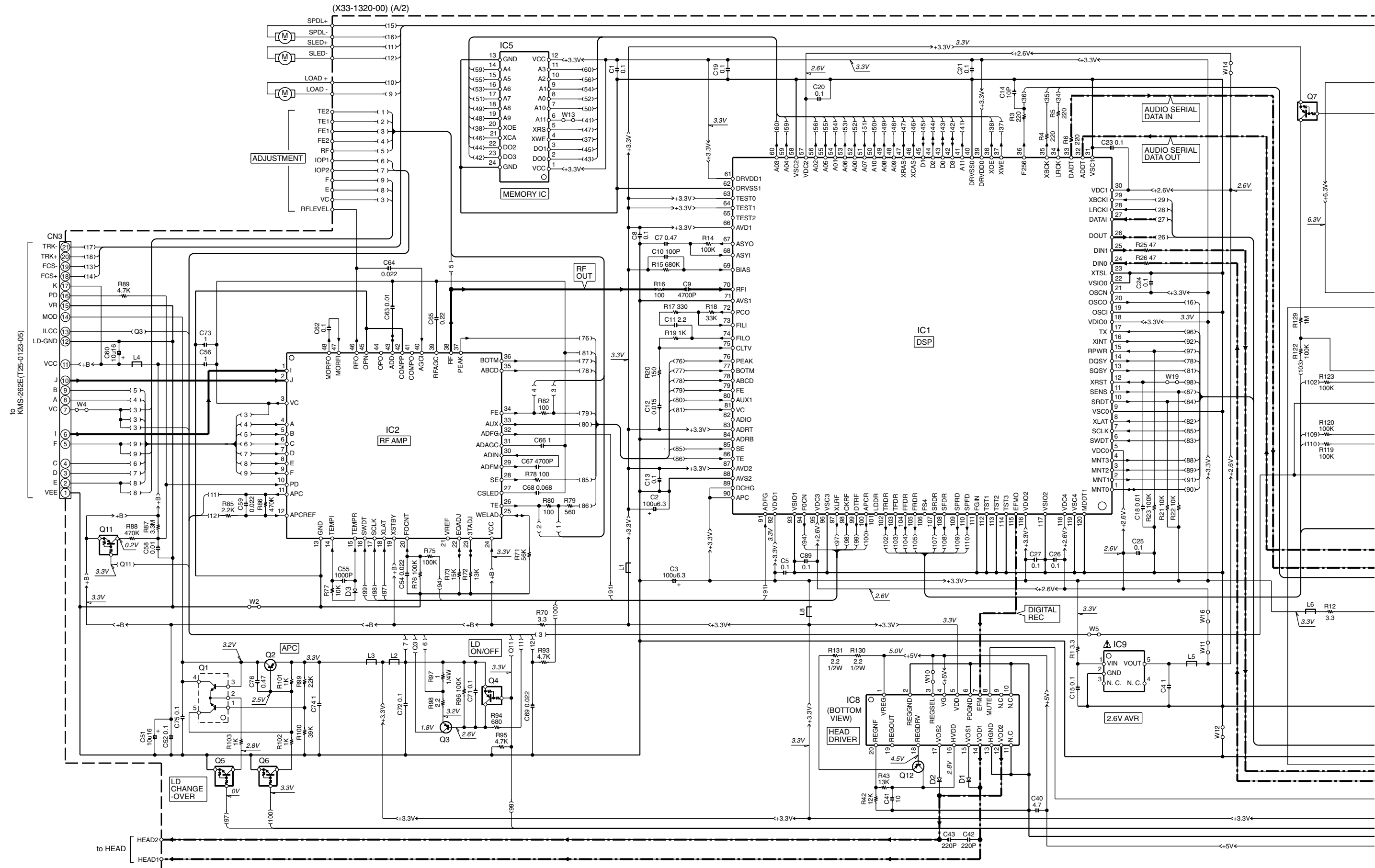
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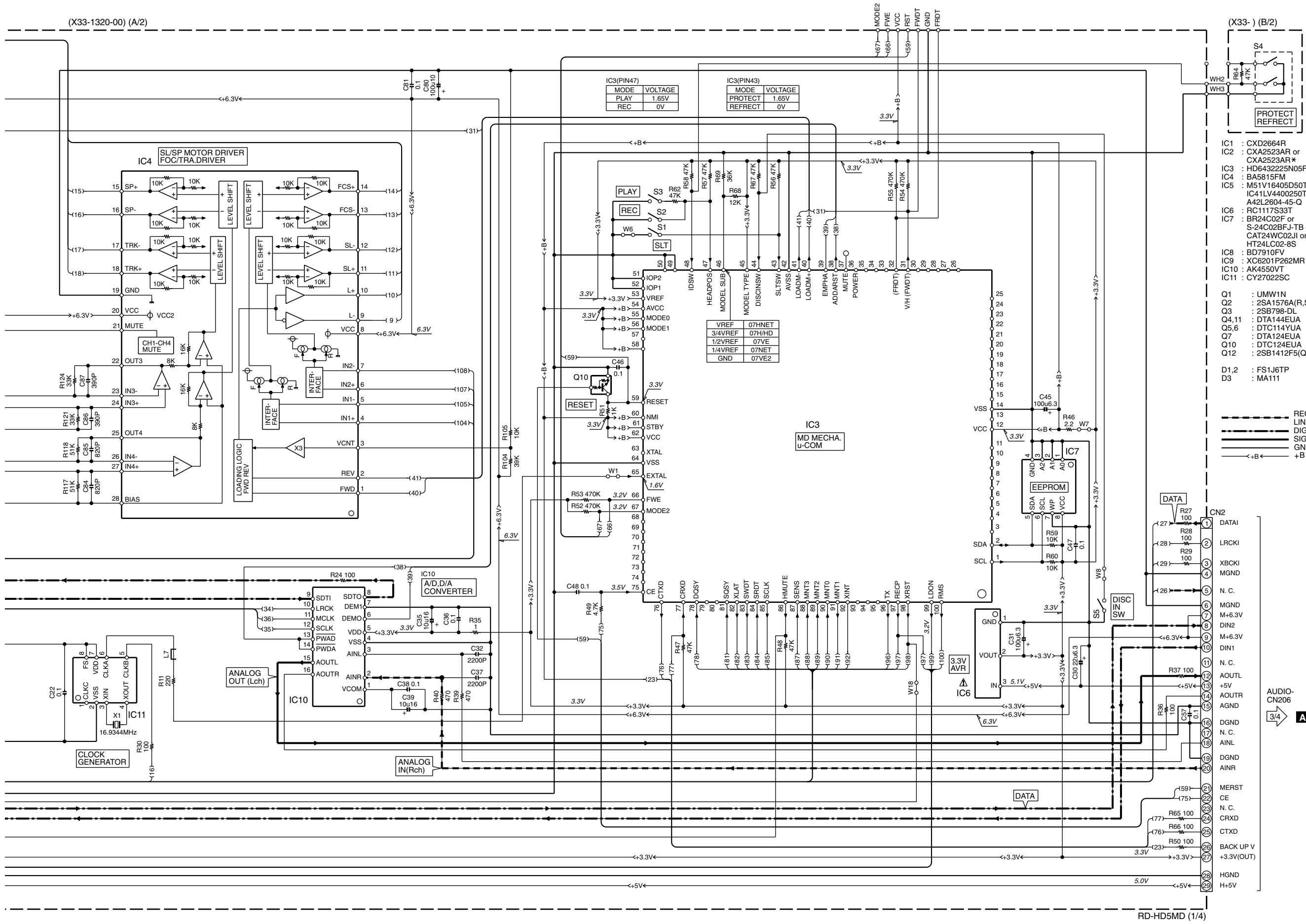


PC BOARD





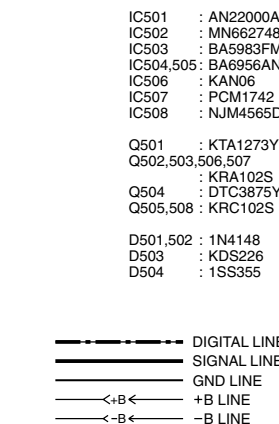
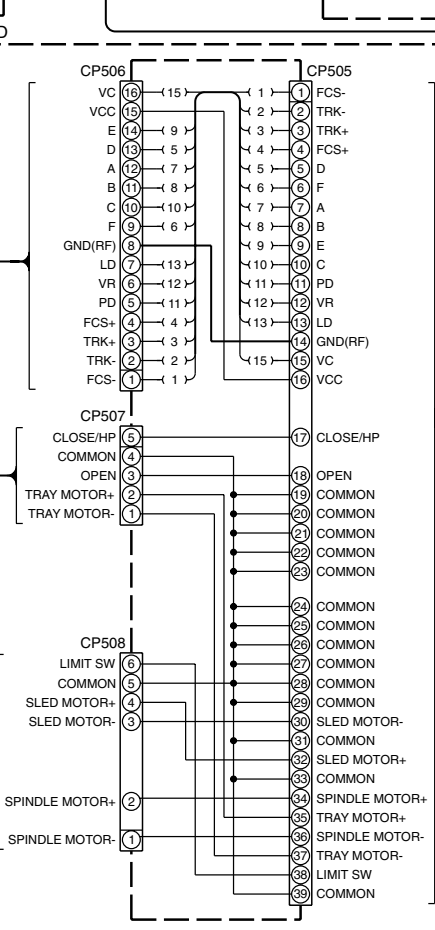
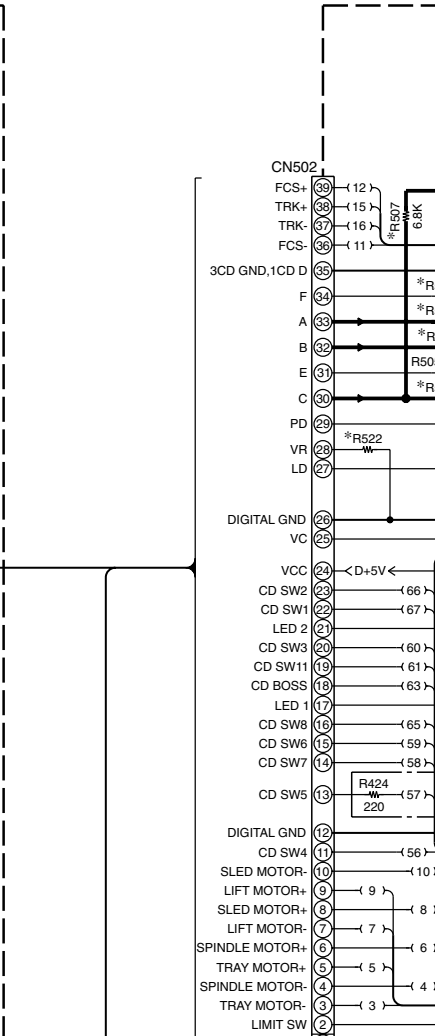
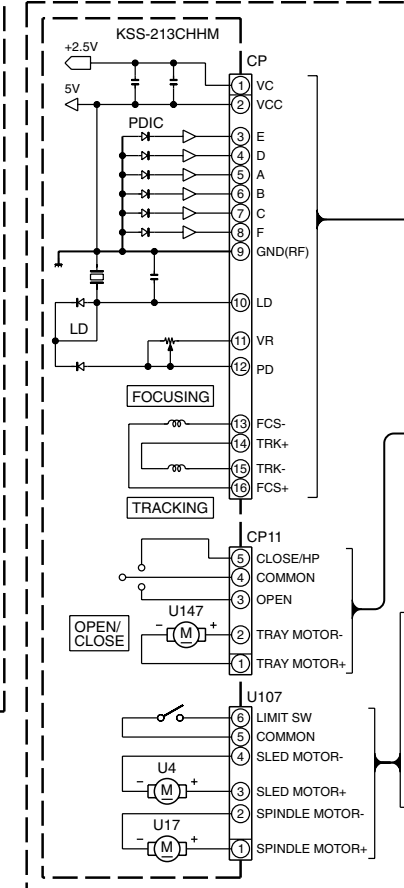
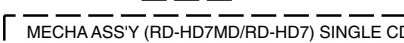
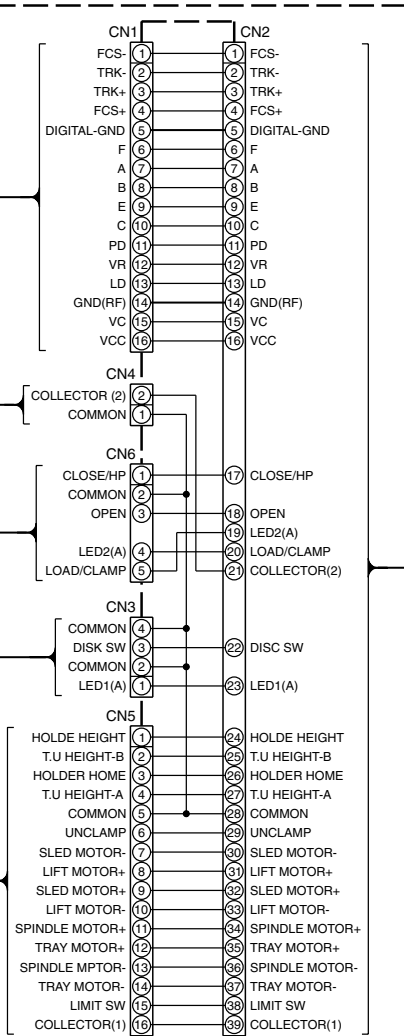
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.



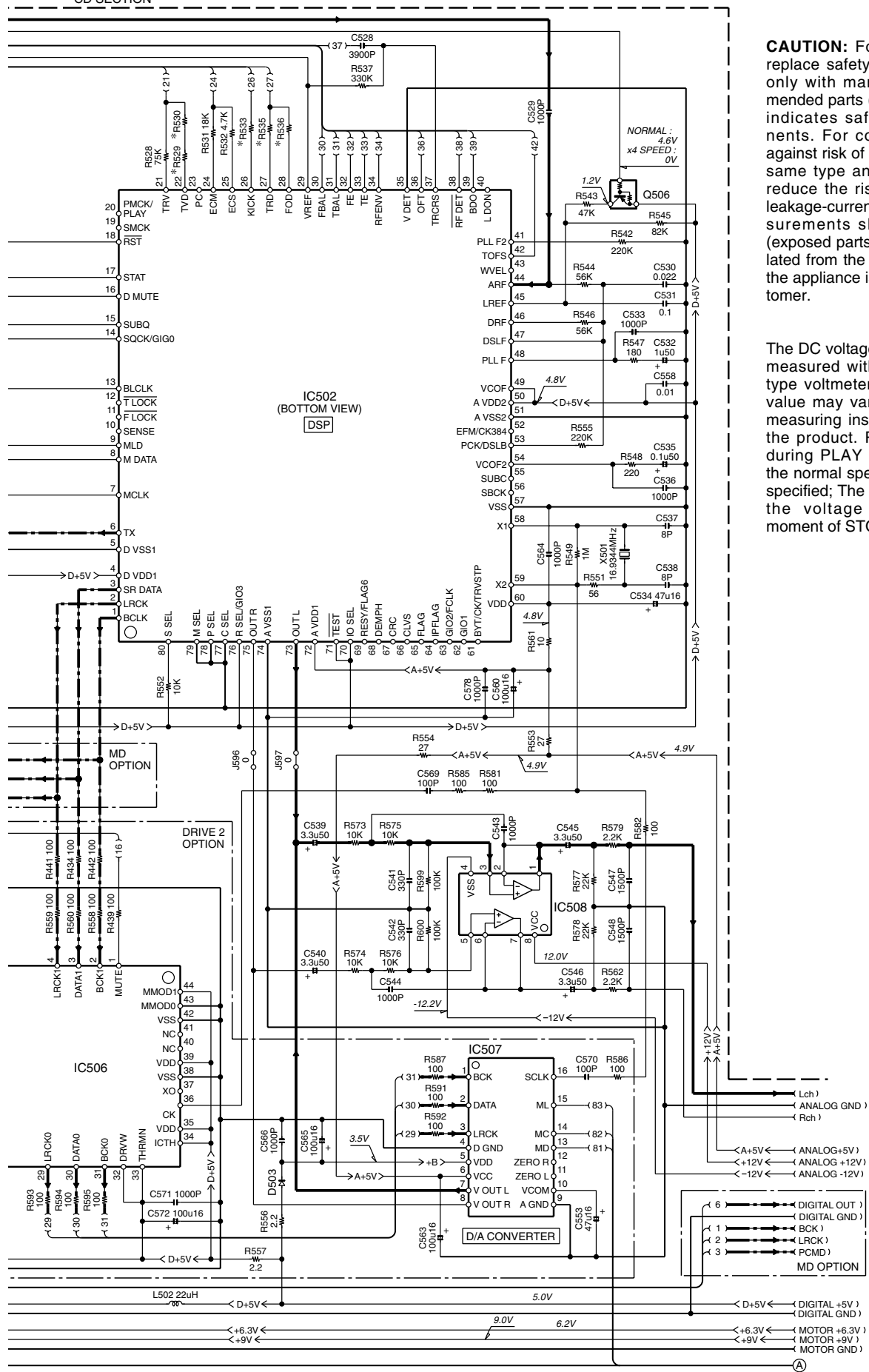
- IC1 : CXD2664R
IC2 : CX2523AR or CX2523AR*
IC3 : HD6432225N05FA
IC4 : BA5815FM
IC5 : M51V16405D50T or IC41LV4400250T or A42L2604-45-Q
IC6 : RC1117S33T
IC7 : BR24C02F or S-24C02BFJ-TB or CAT24WC02JL or HT24LC02-8S
IC8 : BD7910FV
IC9 : XC6201P262MR
IC10 : AK4550VT
IC11 : CY27022SC
Q1 : UMW1N
Q2 : 2SA1576A(R,S)
Q3 : 2SB798-DL
Q4,11 : DTA144EUA
Q5,6 : DTC114YUA
Q7 : DTA124EUA
Q10 : DTC124EUA
Q12 : 2SB1412F5(Q,R)
D1,2 : FS1J6TP
D3 : MA111

--- RECORDING LINE
--- DIGITAL LINE
--- SIGNAL LINE
--- GND LINE
--- +B LINE

AUDIO- CN206
3/4
AJ-5



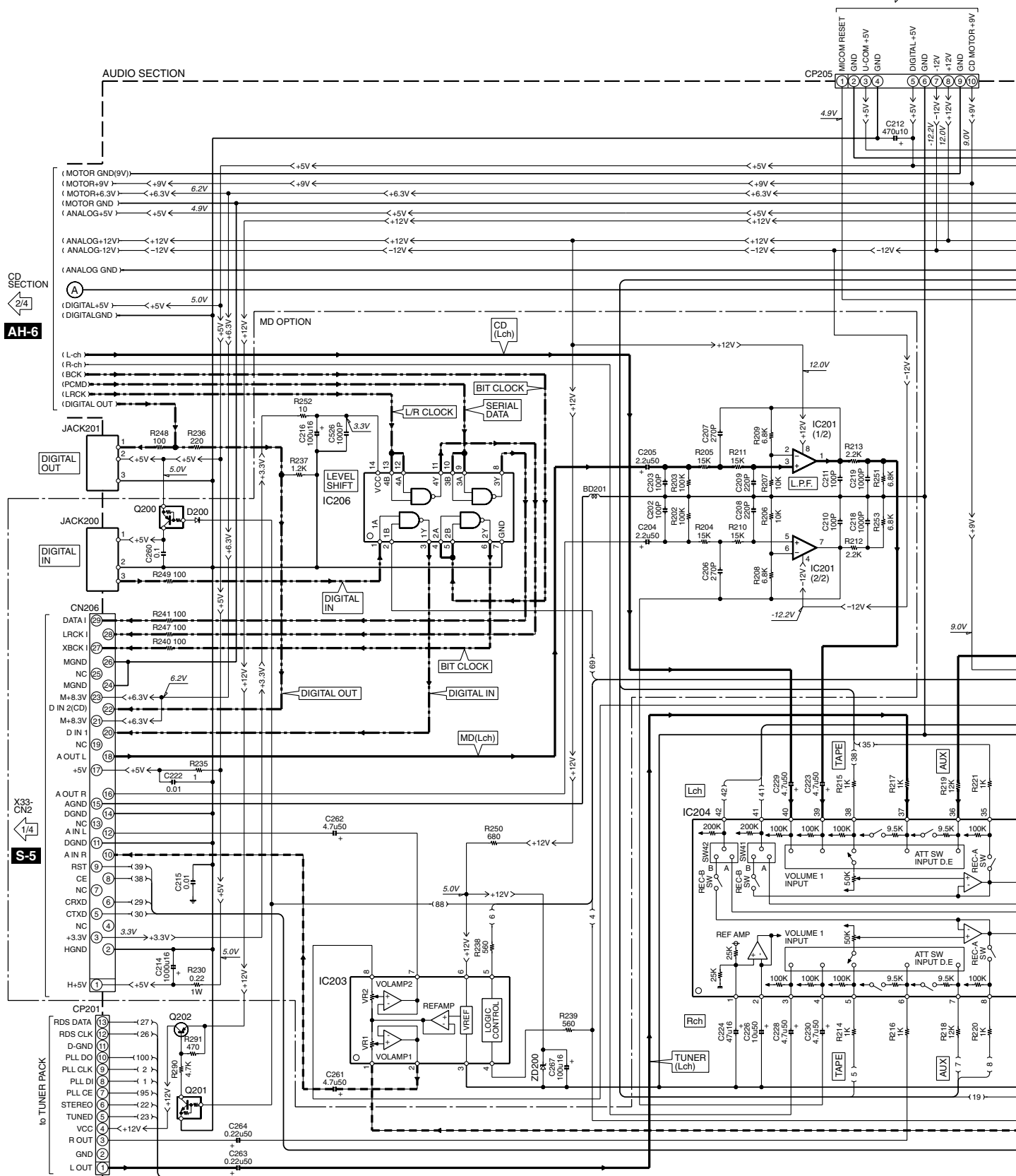
MODEL NAME	C514	C515	C517,526 559,567	C518	C556	C573	J502	J503	J504	R415,416, 507	R501- 503	R504	R506	R516	R522	R529, 530	R533	R535	R536	R561
RD-HD5MD	120P	220P	YES	3300P	1000P	220u16	JUMPER	JUMPER	2.7K	YES	6.8K	2.7K	5.6K	68K	100	10K	68K	39K	4.7K	10K
RD-HD7MD	200P	420P	NO	2200P	1000P	1000u16	NO	1.3K	JUMPER	NO	75	75	1.3K	33K	JUMPER	12K	120K	68K	6.2K	5.6K

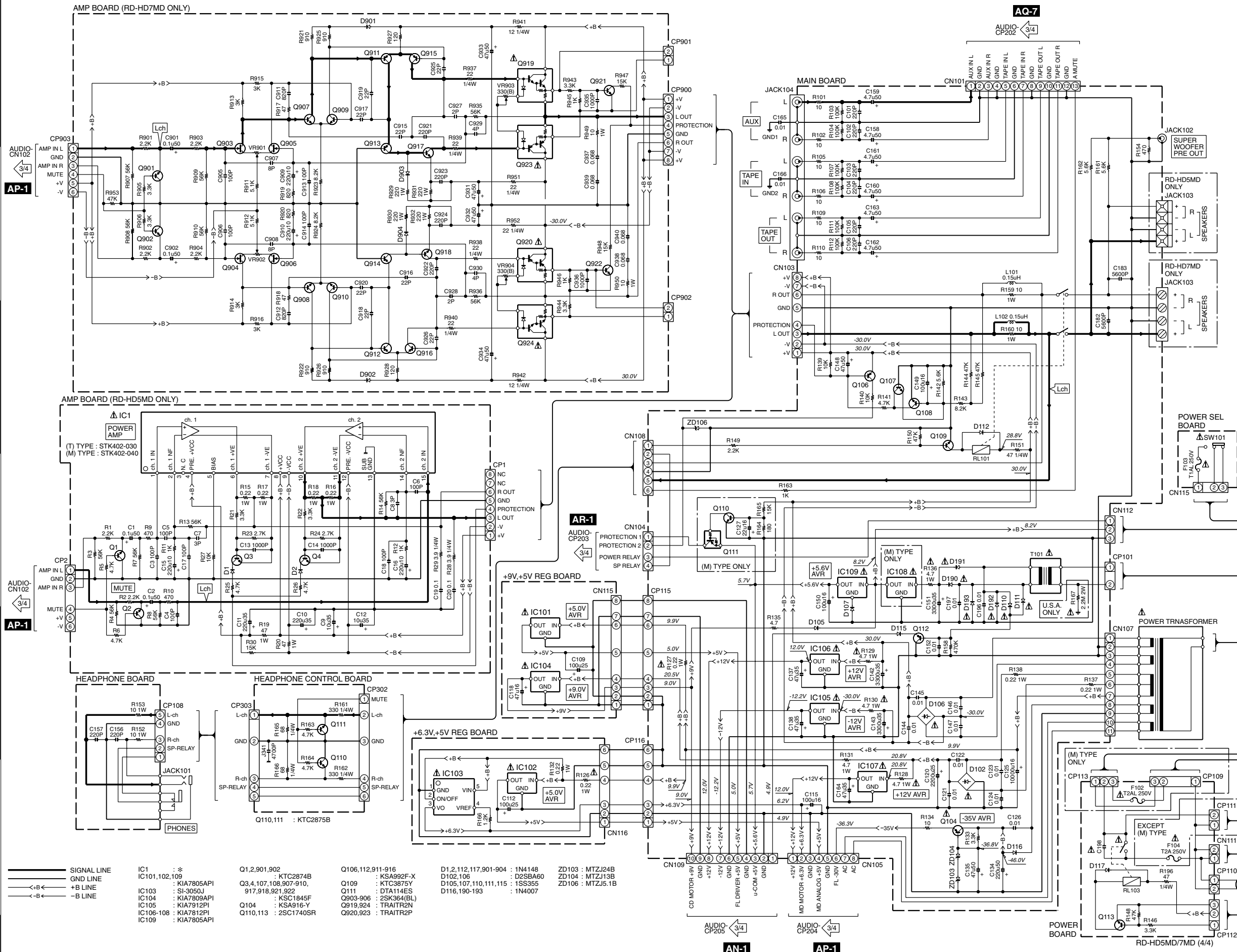


RD-HD5MD/HD7

Y39-4540-10

KENWOOD





CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.

SIGNAL LINE	IC1 : *
GND LINE	IC101,102,109
+B LINE	IC103 : KIA7805API
-B LINE	IC104 : SI-3050J
	IC105 : KIA7809API
	IC106-108 : KIA7812PI
	IC109 : KIA7805API

Q1,2,901,902	Q106,112,911-916
Q3,4,107,108,907,910,	Q109 : KSA992F-X
917,918,921,922	Q110 : KTC3875V
Q104 : KSC1845F	Q111 : DTA114ES
Q105 : KIA7912PI	Q903-906 : 2SK364(BL)
Q106-108 : KIA7812PI	Q919,924 : TRAITR2N
Q109 : KIA7805API	Q920,923 : TRAITR2P

D1,2,112,117,901-904	ZD103 : MTJZJ24B
D102,106	ZD104 : MTJZJ13B
D105,107,110,111,115	ZD106 : MTJZJ5.1B
D116,190-193	

RD-HD5MD/HD7

KENWOOD

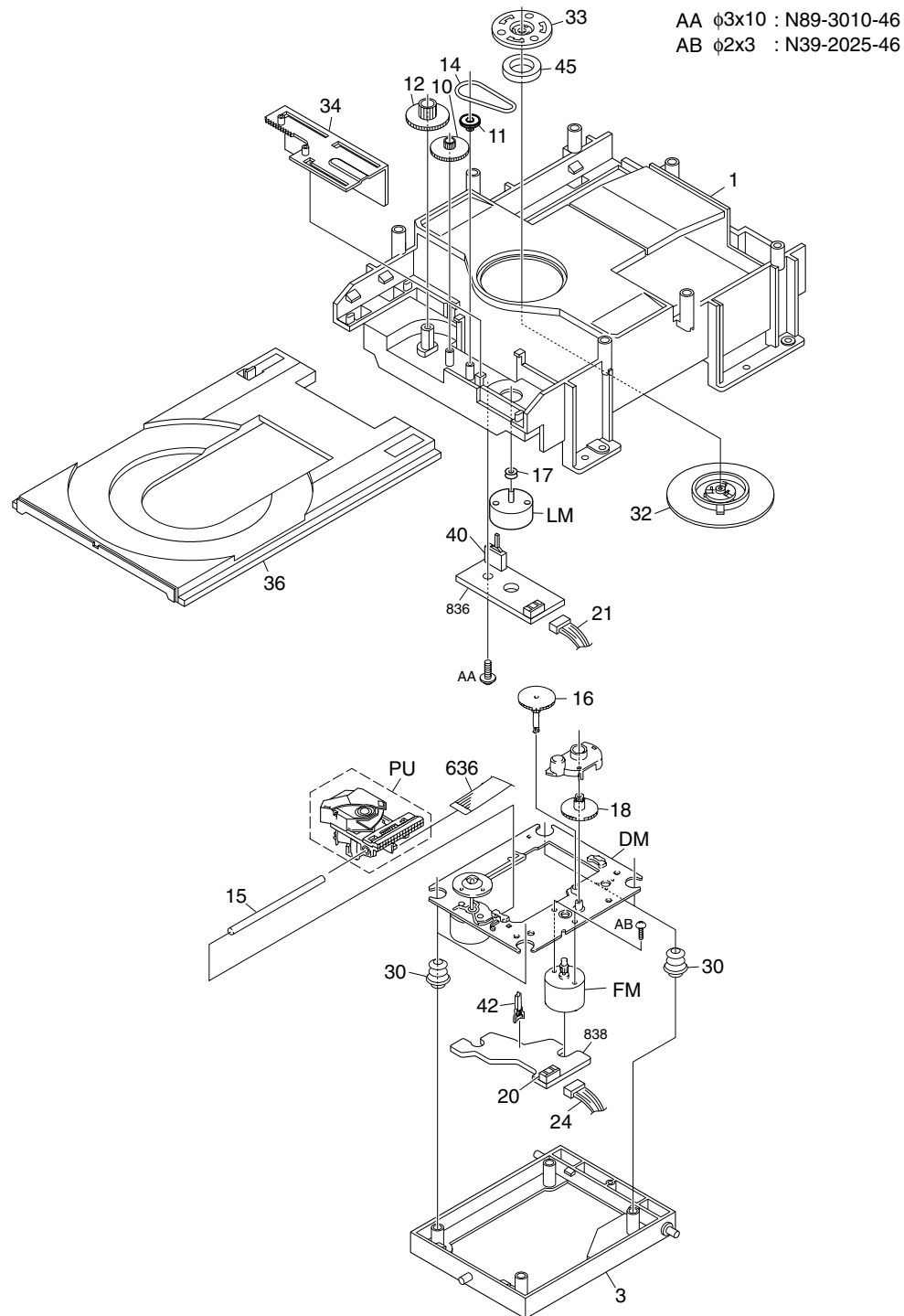
Y39-4540-10

EXPLODED VIEW(SINGLE-CD): RD-HD7

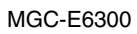
1

2

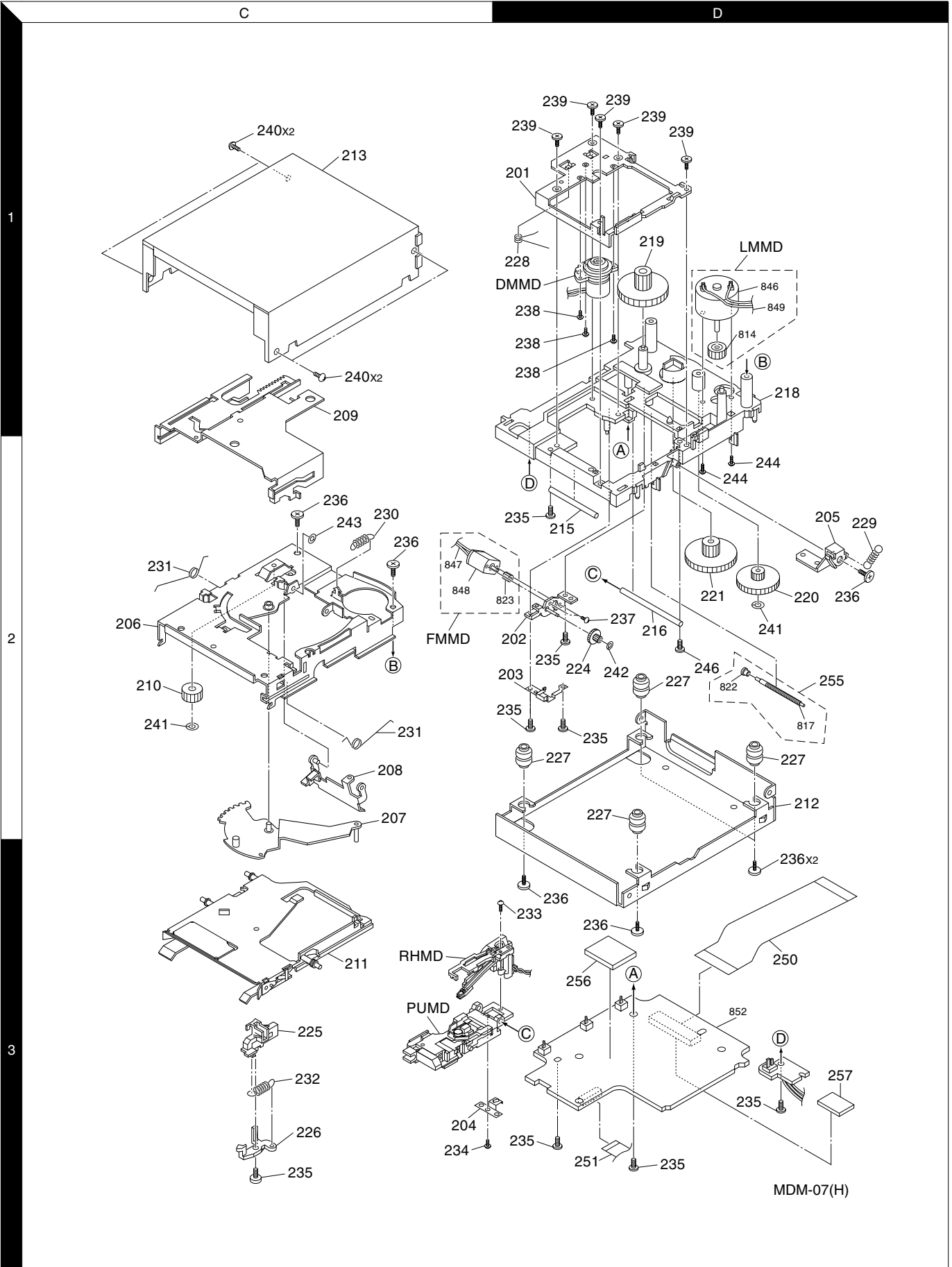
3



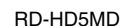
RD-HD7

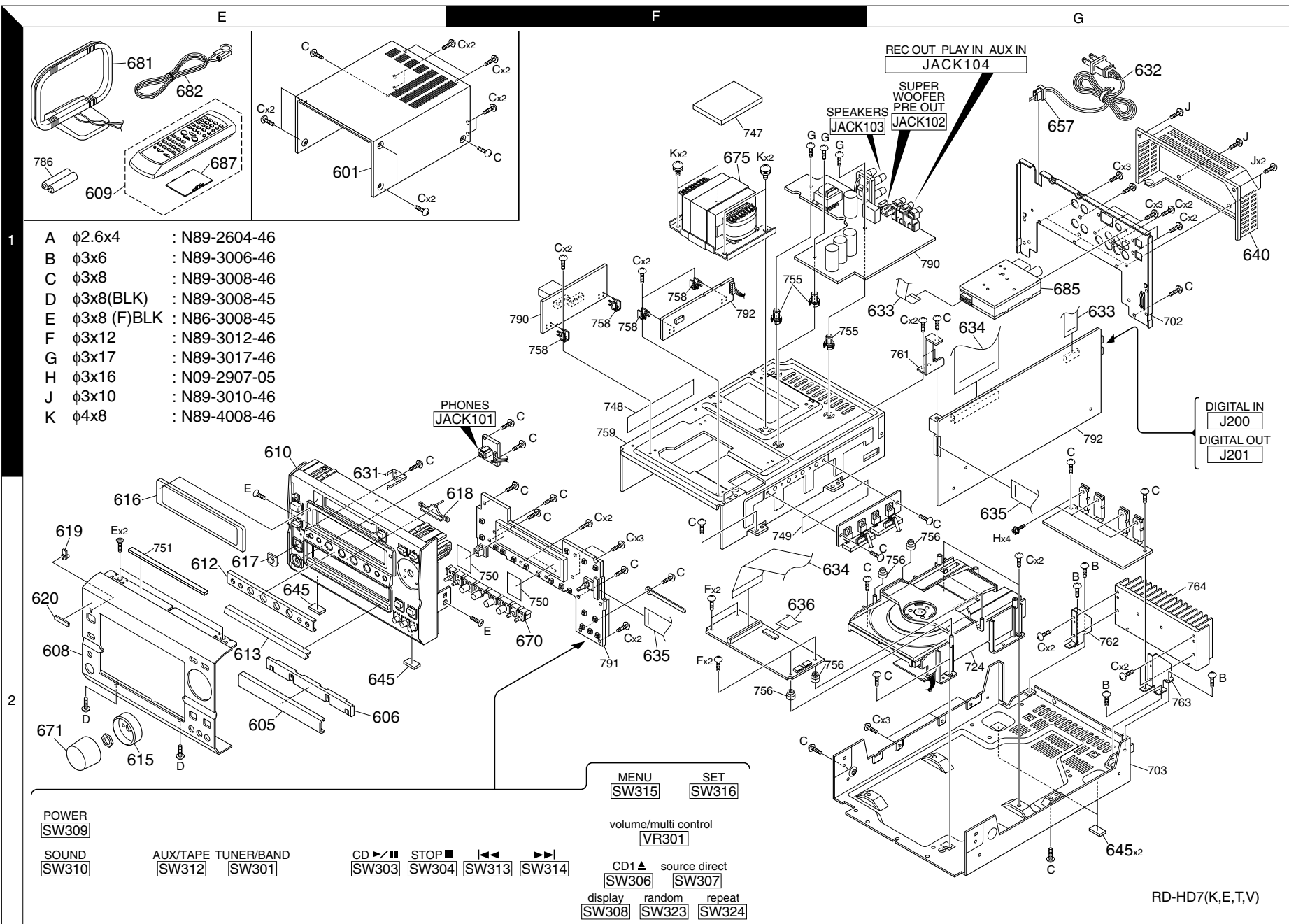


EXPLODED VIEW(MD MECHANISM): RD-HD5MD



Parts with exploded numbers larger than 700 are not supplied.





EXPLODED VIEW(UNIT): RD-HD7

RD-HD7

* New Parts
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1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
RD-HD5MD/HD7 Page 39&40						
-		*	B60-5270-08	INSTRUCTION,EN	5707047420030	5M
-		*	B60-5271-08	INSTRUCTION,SP	5707047420060	E
-		*	B60-5272-08	INSTRUCTION,FR	5707047420080	E
-		*	B60-5273-08	INSTRUCTION,IT	5707047420090	E
-		*	B60-5274-08	INSTRUCTION,GE	5707047420100	E
-		*	B60-5275-08	INSTRUCTION,NE	5707047420110	E
-		*	B60-5276-08	INSTRUCTION,EN	5707047420050	7K
-		*	B60-5327-08	INSTRUCTION,CH	5707047420070	V
-		*	H10-7893-08	CUSHION,SNOW	6230210534000	
-		*	H25-1601-08	POLY BAG	6337000240010	
-		*	H25-1602-08	POLY BAG	6330000299010	
-		*	H50-4603-08	BOX,GIFT	6007210530020	M
-		*	H50-4604-08	BOX,GIFT	6007210530010	5
-		*	H50-4606-08	BOX,GIFT	6007210530060	7
-		*	H50-4607-08	BOX,GIFT	6007210530050	E
-		*	H50-4689-08	BOX,GIFT	6007210530040	KV
-		*	J19-0306-05	CLAMP,WIRE	4330000310000	
601	1E	*	A01-3882-08	CABINET	3000210296000	V
601	1E	*	A01-3883-08	CABINET	3000210286000	57EKM
605	2E	*	A29-1215-08	COVER,TRAY	4317210548000Z	V
605	2E	*	A29-1216-08	COVER,TRAY	4317210548010Z	7EK
605	2E	*	B03-3932-08	DOOR,3CD	5047210298000Z	5M
606	2E	*	A22-1882-08	COVER,TRAY	4310210551000	7EKV
606	2E	*	A52-0988-08	DOOR,3CD	5040210271000	5M
607	1F	*	A52-0989-08	DOOR,MD	5047210281000	5M
608	2E	*	A60-2319-08	PANEL,FRONT	3067210918010Z	5
608	2E	*	A60-2321-08	PANEL,FRONT	3067210928010Z	K
608	2E	*	A60-2322-08	PANEL,FRONT	3067210928020Z	7E
608	2E	*	A60-2327-08	PANEL,FRONT	3067210928030Z	V
608	2E	*	A60-2328-08	PANEL,FRONT	3067210918020Z	M
609	1E	*	A70-1625-08	REMOCON	8300001530010	5
609	1E	*	A70-1626-08	REMOCON	8300001540010	MV
609	1E	*	A70-1629-08	REMOCON	8300001570010	7E
609	1E	*	A70-1630-08	REMOCON	8300001580010	K
610	2E	*	A22-1883-08	PANEL,FRAME	3067210931000	5M
610	1E	*	A22-1885-08	PANEL,FRAME	3067210941010	7EK
610	1E	*	A22-1886-08	PANEL,FRAME	3067210941020	V
612	2E	*	B03-3928-08	DECORATION,8KE	5127210278000Z	5M
612	2E	*	B03-3929-08	DECORATION,8KE	5127210278020Z	7EK
612	2E	*	B03-3933-08	DECORATION,8KE	5127210278010Z	V
613	2E	*	B03-3930-08	DECORATION,CAP	5127210288000Z	V
613	2E	*	B03-3931-08	DECORATION,CAP	5127210288010Z	7EK
615	2E	*	B07-2665-08	DECORATION,RNG	5127210301000Z	
616	2E	*	B10-3934-08	WINDOW,DISPLAY	5077210873000	57EKM
616	2E	*	B10-3935-08	WINDOW,DISPLAY	5077210873100	V
617	2E	*	B11-1573-08	WINDOW,REMOCN	5070210883000	
618	2E,2F	*	B19-1655-08	DECORATION,LED	5120210313000	
619	2E	*	B19-1656-08	LENS,STANDBY	3710210353000	
620	2E	*	B43-0301-04	BADGE	5630210288000	7EKV
630	1E	*	E03-0115-05	CN.WAFER	L109283004100	M
631	2E	*	E29-1696-08	STEEL,PLATE	1000210027000	
632	1G		E30-2824-15	CORD ASSY	L068020080010	V
632	1G		E30-7256-08	CORD ASSY	L06800000004C	57

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2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
632	1G		E30-7257-08	CORD ASSY	L06802003001C	
632	1G		E30-7258-08	CORD ASSY	L06804001101C	K
633	1G	*	E35-3476-08	CABLE,FLAT,13P	L301111130010	EM
634	2F,1G	*	E35-3477-08	CABLE,FLAT,39P	L301221390010	
635	2F,2G	*	E35-3478-08	CABLE,FLAT,21P	L301700210020	
636	1A,2F	*	E35-3479-08	CABLE,FLAT,16P	L301191160040	7EKV
640	1G	*	F07-2006-08	COVER,HEAT SIN	4310210561000	
643	2E	*	G09-0696-08	SPRING,CD	3720210236000	5M
644	1E	*	G09-0697-08	SPRING,MD	3720210246000	5M
645	2E,2G	*	G11-2926-08	CUSHION,FOOT	4050210625000	
646	2E	*	G11-2927-08	CUSHION,DOOR	4050210635000	5M
657	1G	*	J42-0355-08	STOPPER,AC COR	4380210002000	
670	2F	*	K29-8274-08	BUTTON,8KEY	5097211811000Z	
671	2E	*	K29-8275-08	KNOB,VOL	5087210638000Z	57EKM
671	2E	*	K29-8276-08	KNOB,VOL	5087210638010Z	V
675	1F	*	L07-3253-08	POWER TRANS	8200660550220	M
675	1F	*	L07-3255-08	POWER TRANS	8200660550250	5
675	1F	*	L07-3257-08	POWER TRANS	8200660550210	K
675	1F	*	L07-3258-08	POWER TRANS	8200660550230	7E
675	1F	*	L07-3262-08	POWER TRANS	8200660550260	V
681	1E	*	T90-0903-08	ANTENNA,LOOP	E601016000000	
682	1E	*	T90-0904-08	ANTENNA,WIRE	E605000030010	
685	1G	*	W02-2986-08	TUNER,FM/AM	E903011100010	MV
685	1G	*	W02-2988-08	TUNER,FM/AM	E903114100020	57E
685	1G	*	W02-2989-08	TUNER,FM/AM	E903011000010	K
686	1F		B07-2664-08	DECORATION,MD	5127210291000	5M
687	1E		A09-1151-08	BATTERY CASE		
BD201			L92-0523-08	BEAD,COIL CHIP	7611010000020	
SINGLE CD (RD-HD7) Page 36						
1	1B	*	A10-3600-08	MECHA BASE		
3	3B		A13-3114-08	FRAME FEED		
10	1A		D13-2527-08	GEAR CENTER		
11	1A		D13-1753-08	GEAR PULLEY		
12	1A		D13-1755-08	GEAR LOAD		
14	1A	*	D16-0801-08	BELT		
15	3A		D10-3606-08	ROD (GUIDE)		
16	2B		D13-1720-08	GEAR (DRIVING)		
17	2B		D15-0395-08	PULLEY MOTOR		
18	2B		D13-2605-08	GEAR (RD)		
20	3A		E40-3264-05	CONNECTOR S6B-PH		
21	2B		E35-2224-08	WIRE HARNESS 5P		
24	3B		E35-2223-08	WIRE HARNESS 6P		
25	1A,1B		F07-0783-08	RUBBER STOPPER		
30	3A	*	J02-1554-08	INULATOR(48,GREEN)		
31	3B	*	J02-1555-08	INULATOR(30,RED)		
32	2B		J11-0829-08	CLAMPER		
33	1B		J21-6409-08	PLATE CLAMPER		
34	1A	*	A15-0120-08	GUIDE FRAME		
36	2A	*	J99-0849-08	TRAY		
40	2A		S74-0068-08	SWITCH LEAF		
42	3A		S74-0038-08	LEAF SWITCH		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
45	1B		T99-0579-08	MAGNET CORE		
DM	2B		A11-1223-08	DISC MOTOR ASSY		
FM	3B		T42-0817-08	FEED MOTOR ASSY		
LM	2B	*	T42-1137-08	MOTOR,DC		
PU	2A		T25-0132-08	PICK UP (KSS-213CH)		
3 CD (RD-HD5MD) Page 28						
1	2B		A10-3352-08	CHASSIS(MAIN)		
2	2A		D10-3719-08	SLIDER(LEFT-L)		
3	1B		A11-1122-08	SUB CHASSIS(L)		
4	1A		J19-5798-08	HOLDER(LOAD-B)		
5	1B		J19-5799-08	HOLDER(LOAD-A)		
6	1B		J99-0593-08	TARY		
7	1C		J19-5800-08	HOLDER(TOP)		
8	1C		D10-3720-08	SLIDER(TU)		
9	1C		J19-5801-08	HOLDER(CLAMP)		
10	1C		A11-1175-08	FRAME(TU-B)		
11	1C		A11-1123-08	SUB CHASSIS(R)		
13	1C		D10-3721-08	SLIDER(CLAMP)		
14	2A		D10-3723-08	SLIDER(LOAD)		
15	1B		D10-3722-08	SLIDER(OPEN)		
16	1C		D10-3928-08	LEVER(CLAMP-B)		
17	2B		D10-3725-08	LEVER(SW4)		
18	1A		J19-5803-08	HOLDER (SHAFT)		
19	1C		J11-0826-08	CLAMPER		
20	2C		D12-0157-08	CAM(TU)		
21	2B		D13-1815-08	GEAR(LOAD-A)		
22	2A		D13-1816-08	GEAR(LOAD-B)		
23	2A		D13-1817-08	GEAR(HELICAL)		
24	1C,2B		D13-1818-08	GEAR(WORM)		
25	2B		D13-1819-08	GEAR(IDLER-B)		
26	2A		D13-1820-08	GEAR(FRICTION)		
27	2A		D10-3726-08	LEVER(SW5)		
28	2A		D10-3727-08	LEVER(SW6)		
29	2B		D13-1821-08	GEAR(TU)		
30	1B		D13-1822-08	GEAR(ZENEB)		
31	1A		D10-3728-08	LEVER(CLOSE SWITCH)		
32	2A		D10-3729-08	ARM(FRICTION)		
33	2A		D10-3730-08	SILDER(CENTER)		
34	1B		D10-3731-08	LEVER(LIMIT-A)		
35	1A		D10-3732-08	LEVER(LIMIT-B)		
36	1B		D10-3733-08	SILDER(TRAY)		
37	2B		D10-3734-08	SLIDER(SW8)		
38	2A		D10-3735-08	LEVER(SW7)		
39	1A,1C		D10-3736-08	ARM(TRAY LOCK)		
40	1B		J90-0850-08	GUIDE(DISC)		
43	2C		D15-0402-08	PULLEY(TIMING)		
44	2C		D13-1981-08	PLATE(TU)		
45	2B		D15-0404-08	PULLEY(MOTOR)		
46	2B		D13-1823-08	GAER(CENTER-B)		
47	2A		D13-1824-08	GEAR(IDLER)		
48	2A		D13-1825-08	GEAR(CENTER-A)		
49	2C		J02-1133-08	INSULATOR		
50	2C		D16-0718-08	BELT(LIFT)		
51	2C		J02-1190-08	INSULATOR		
52	2C		D16-0719-08	BELT(TIMING)		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
53	1B		G01-4000-08	COMPRESSION SPRING(GUIDE)		
54	2B		G01-4001-08	TORSION SPRING(LOCK)		
55	1B		G01-4188-08	TORSION SPRING(ZENEB)		
56	2B		G01-4003-08	TENSION SPRING(SWITCH)		
57	2A		G01-4004-08	TENSION SPRING(CAM)		
58	2A		G01-4005-08	COMPRESSION SPRING(FRICTION)		
59	1C		G01-4187-04	TORSION SPRING(ASSIST-C)		
61	1C		G01-4185-08	TORSION SPRING(ASSIST-B)		
62	2C		G01-4009-08	COMPRESSION SPRING(CAM)		
63	2C		N09-3373-08	SCREW(B)		
64	2C		F07-1693-08	LEVER(TU)		
65	1A,2B		N09-3374-08	SCREW(TRAY)		
67	1C		D21-1872-08	SHAFT(WORM-A)		
68	2C		G01-4186-08	COPRESSION SPRING(TU-C)		
69	2A		D21-1874-08	SHAFT(FRICTION)		
70	2B		D21-1875-08	SHAFT(LEVER)		
71	1B		D21-1876-08	SHAFT(TRAY)		
72	1C,2C		N09-3375-08	SCREW(A2)		
73	1A		F19-1074-08	COVER(WIRE)		
74	2B		F19-1075-08	COVER-(M)		
75	2B		N09-3377-08	SCREW(SUB-L)		
76	1B,1C		N82-2608-46	SCREW(2.6X8)		
77	1A		N89-2608-45	SCREW(2.6X8)		
78	2C		W02-2654-08	PCB(SENSOR)		
79	2C		H30-0613-08	SOFT TAPE		
81	2B		E35-1836-08	WIRE HARNESS(TU)		
82	1A		E35-1837-08	WIRE HARNESS(SW1)		
83	1B		E35-1838-08	WIRE HARNESS(SW2)		
84	1A,1B		E35-1839-08	4P FFC		
87	2B		G11-2307-08	CUSHION		
88	1C		T99-0544-15	MAGNET		
89	1A		G02-1624-08	FLAT SPRING		
90	2B		D10-3737-08	LEVER(GUIDE)		
91	1C		E35-2522-08	16P FFC(B)		
92	2C		E35-2523-08	LEAD WIRE(A)		
93	2C		E35-2524-08	LEAD WIRE(B)		
96	2B		E40-3264-05	CONNECTOR(S6B-PH)		
97	1A,1B		E40-8107-08	CONNECTOR(04FM-1.0ST)		
99	2B		E40-8109-08	CONNECTOR(16FE-ST)		
100	2B		W02-2602-08	PHOTO TRANSISTOR(RPT-38PT3F)		
101	1B		W02-2603-08	LED(SIR-33ST3)		
102	1B		W02-2653-08	PCB(SENSOR)		
103	2B		W02-2656-08	PHOTO TRANSISTOR(RPM-22PB)		
104	2B		G02-1625-08	LEAF SPRING(WORM)		
106	2C		S68-0077-08	SWITCH(MPU1025MLB0)		
107	2B,2C		F29-0124-08	TUBE		
108	2C		CK45F1H103Z	CERAMIC C 0.01UF		
109	1B		W02-2655-08	LED SENSOR(LED2)		
111	1A		N19-1384-08	WASHER(2.1X5.0X0.25)		
112	2C		N09-3408-08	SCREW		
113	2C		N09-5151-08	SCREW(M1.7X2.2)		
114	2C		E40-8544-08	CONNECTOR		
117	1B		E40-4856-05	FLAT CABLE CONNECTOR(16P)		
118	1B		E40-4903-05	CONNECTOR		
119	1B		E40-4926-05	CONNECTOR		

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PARTS LIST

RD-HD5MD/HD7

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5

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120	2B		E35-2526-08	16P FFC(M1)		
121	2B		E40-3246-05	CONNECTOR (CN6)		
122	1B		E40-8178-05	FLAT CABLE CONNECTOR		
124	2C		N09-5152-08	SCREW(1.7X2.5)		
126	1C		G16-0955-08	SPACER(CLAMPER)		
127	1C		J69-0083-04	DOUBLE FACE TAPE		
128	2C		D19-0320-08	SHAFT(LEAD SCREW)ASSY		
135	2B		D15-0405-08	WORM LT ASSY		
136	1C		D15-0406-08	WORM LD ASSY		
137	1B		E35-2527-08	16P FFC(P)		
138	2B		E35-2528-08	WIRE HARNESS(TRAY)		
139	1B		E35-2529-08	5P FFC		
141	1B		G16-0981-08	SPACER(FFC)		
142	1B		E40-3262-05	CONNECTOR		
144	1B		E40-8179-05	CONNECTOR		
145	2C		G02-1754-04	LEAF SPRING		
146	2C		G11-2306-08	SOFT TAPE		
147	1B		E30-3246-05	PIN ASSY (2P)		
S1	2A		S68-0076-08	SWITCH(MPU10371MLB0)		
S2	1A		S68-0078-08	SWITCH(MPU10184MLB1)		
S3	1B		S68-0077-08	SWITCH(MPU10252MLB0)		
S4	2B		S40-1139-05	SWITCH(SPOP862)		
S5 -7	2B		S68-0077-08	SWITCH(MPU10252MLB0)		
S8	2B		S40-1139-05	SWITCH(SPOP862)		
S9	1B		S68-0078-08	SWITCH(MPU10184MLB1)		
DM	2C		A11-1184-08	SUB CHASSIS ASSY		
FM	2C		T42-0981-08	FEED MOTOR ASSY		
LFTM	2C		T42-0887-08	LD MOTOR ASSY		
LM	2C		T42-0886-08	LT MOTOR ASSY		
PU	2C		T25-0127-05	PICKUP		
MD MECHANISM (RD-HD5MD) Page 29						
201	1D		A10-3531-02	CHASSIS		
202	2D		J19-6125-04	BRACKET ASSY		
203	2D		G02-1716-04	LEAF SPRING		
204	3C		D13-2510-03	RACK(GEAR)		
205	2D		D10-3958-03	LEVER		
206	2C		A11-1189-03	SUB CHASSIS ASSY		
207	2C		D10-3959-04	ARM ASSY		
208	2C		D10-3961-04	LEVER ASSY		
209	1C		D10-3963-02	SLIDER		
210	2C		D13-2511-04	GEAR		
211	3C		J19-6127-03	HOLD ASSY		
212	2D		A15-0106-02	FRAME		
213	1C		F11-0503-02	SHIELD CASE		
215	2D		D10-3982-04	ROD		
216	2D		D10-3957-04	ROD		
218	1D		A11-1187-04	SUB CHASSIS ASSY		
219	1D		D13-2504-04	GEAR		
220	2D		D13-2505-04	GEAR		
221	2D		D13-2516-04	GEAR		
224	2D		D13-2509-04	GEAR		
225	3C		D10-3964-03	SLIDER		
226	3C		D10-3965-03	ARM		
227	2D,3D		J02-1492-04	INSULATOR		

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6

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228	1D		G01-4230-04	TORSION SPRING		
229	2D		G01-4231-04	TENSION SPRING		
230	2C		G01-4235-04	TENSION SPRING		
231	2C		G01-4233-04	TORSION SPRING		
232	3C		G01-4234-04	TENSION SPRING		
233	3D		N39-1745-46	SCREW		
234	3C		N09-3104-05	SCREW (M1.7X1.8)		
235	2D,3C		N09-3279-05	SCREW (1.7X3,B)		
236	2C,2D		N09-5113-05	SCREW		
237	2D		N09-5229-05	SCREW (1.4X1.8 PWR)		
238	1D		N09-5230-05	SCREW (1.4X2.2,S)		
239	1D		N09-5231-05	SCREW (1.7X4,B)		
240	1C		N86-2004-46	SCREW		
241	2C,2D		N19-0366-04	FLAT SCREW		
242	2D		N19-1511-04	FLAT SCREW		
243	2C		N19-1171-04	FLAT SCREW		
244	2D		N09-5285-05	SCREW (M1.7X4.5,FLAT)		
246	2D		N09-5402-05	SCREW (1.7X4X5.5)		
250	3D,2F	*	E35-3462-05	FLAT CABLE		
251	3D		E35-2348-05	FLAT CABLE		
255	2D		D13-2506-04	GEAR ASSY		
256	3D		G16-1236-04	SHEET		
257	3D		G16-1263-04	SHEET		
DMMD	1D		T42-0983-05	MOTOR ASSY		
FMMD	2C		T42-0985-04	MOTOR ASSY		
LMMD	1D		T42-0984-04	MOTOR ASSY		
PUMD	3C		T25-0123-05	PICKUP		
RHMD	3C		T30-0031-05	RECORDING HEAD		
ELECTRONIS PARTS						
FLT301		*	16-BT-103GNK	DISPLAY,FLT	K530161030010	
LED301		*	B30-2569-08	LED,ROUND	K500032500010	
LED302		*	B30-2655-08	LED,ROUND	K500030000010	V
LED302		*	B30-2656-08	LED,ROUND	K500036000030	57EKM
C1,2			CE04LW1H0R1M	ELECTRO	0.1UF	50WV
C3-6			CC45FSL1H101J	CERAMIC	100PF	J
C7,8			CC45FSL1H030C	CERAMIC	3.0PF	C
C9			CE04LW1V100M	ELECTRO	10UF	35WV
C10,11			CE04LW1V221M	ELECTRO	220UF	35WV
C12			CE04LW1V100M	ELECTRO	10UF	35WV
C13,14			CK45FB1H102K	CERAMIC	1000PF	K
C15,16			CE04LW1A221M	ELECTRO	220UF	10WV
C17,18			CC45FSL1H101J	CERAMIC	100PF	J
C19,20			CQ93FMG1H104K	MYLAR	0.10UF	K
C101-106			CK73GB1H221K	CHIP C	220PF	K
C109			CE04LW1E101M	ELECTRO	100UF	25WV
C112			CE04LW1E101M	ELECTRO	100UF	25WV
C115			CE04LW1C101M	ELECTRO	100UF	16WV
C118			CE04LW1C470M	ELECTRO	47UF	16WV
C120			CE04LW1E222M	ELECTRO	2200UF	25WV
C121-124		*	CK45FB2H103Z	CERAMIC	0.010UF	Z
C125			C92-0264-08	ELECTRO	10000UF	16WV
C126			CK45FB2H103Z	CERAMIC	0.010UF	Z
C127			CE04LW1C220M	ELECTRO	22UF	16WV
C134			CE04LW1H221M	ELECTRO	220UF	50WV

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7

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C135 C137,138 C142,143 C144-147 C148			CE04LW1H470M CE04LW1V470M C90-1616-05 CK45FB2H103Z CE04LW1H470M	ELECTRO 47UF 50WV ELECTRO 47UF 35WV ELECTRO 3300UF 35WV CERAMIC 0.010UF Z ELECTRO 47UF 50WV	5	
C149,150 C151 C151 C152 C158-163			CE04LW1C101M CE04LW1C332M CE04LW1V332M CK73GB1H103K CE04LW1H4R7M	ELECTRO 100UF 16WV ELECTRO 3300UF 16WV ELECTRO 3300UF 35WV CHIP C 0.010UF K ELECTRO 4.7UF 50WV	57EKV M	
C164 C165,166 C181 C182,183 C182,183			CE04LW1V470M CK73GB1H103K CE04LW1H4R7M CK45FB1H472K CK45FB1H562K	ELECTRO 47UF 35WV CHIP C 0.010UF K ELECTRO 4.7UF 50WV CERAMIC 4700PF K CERAMIC 5600PF K	M 57EKV	
△ C196,197 C198 C201 C202,203 C204,205		*	CK45FB2H103Z C91-1649-08 CK73GB1H104K CC73GCH1H101J CE04LW1H2R2M	CERAMIC 0.010UF Z CERAMIC 4700PF K CHIP C 0.10UF K CHIP C 100PF J ELECTRO 2.2UF 50WV	5M 5M	
C206,207 C208,209 C210,211 C212 C213			CK73GB1H271K CK73GB1H221K CC73GCH1H101J CE04LW1A471M CE04LW1C101M	CHIP C 270PF K CHIP C 220PF K CHIP C 100PF J ELECTRO 10WV ELECTRO 100UF 16WV	5M 5M 5M	
C214 C215 C216,217 C218,219 C220			CE04LW1C102M CK73GB1H103K CE04LW1C101M CK73GB1H102K CK73GB1H103K	ELECTRO 1000UF 16WV CHIP C 0.010UF K ELECTRO 100UF 16WV CHIP C 1000PF K CHIP C 0.010UF K	5M 5M 5M 5M 5M	
C221,222 C223 C224 C225 C226			CK73GB1H103K CE04LW1H4R7M CE04LW1C470M CK73GB1H223K CE04LW1H100M	CHIP C 0.010UF K ELECTRO 4.7UF 50WV ELECTRO 47UF 16WV CHIP C 0.022UF K ELECTRO 10UF 50WV	5M	
C228,229 C230-232 C233,234 C238,239 C240,241			CE04LW1H4R7M CE04LW1H4R7M CE04LW1H100M CK73GB1A154K CK73GB1A474K	ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV ELECTRO 10UF 50WV CHIP C 0.15UF K CHIP C 0.47UF K	5M	
C242-245 C246,247 C248,249 C250,251 C252,253			CK73GB1H104K CK73GB1H332K CK73GB1H221K CE04LW1H2R2M CE04LW1H4R7M	CHIP C 0.10UF K CHIP C 3300PF K CHIP C 220PF K ELECTRO 2.2UF 50WV ELECTRO 4.7UF 50WV		
C254 C255,256 C257 C258,259 C260			CE04LW1H100M CK73GB1H561J CK73GB1H102K CE04LW1H4R7M CK73GB1H104K	ELECTRO 10UF 50WV CHIP C 560PF J CHIP C 1000PF K ELECTRO 4.7UF 50WV CHIP C 0.10UF K	7EKV 5M	
C261,262 C263,264 C265,266 C267 C301,302			CE04LW1H4R7M CE04LW1HR22M CK73GB1H104K CE04LW1C101M CK73GB1H103K	ELECTRO 4.7UF 50WV ELECTRO 0.22UF 50WV CHIP C 0.10UF K ELECTRO 100UF 16WV CHIP C 0.010UF K	5M 7EKV 5M	

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8

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C303-306 C307 C308 C309 C310,311			CK73GB1H221K CE04LW1A101M CC73GCH1H101J CE04LW1H330M CK73GB1H104K	CHIP C 220PF K ELECTRO 100UF 10WV CHIP C 100PF J ELECTRO 33UF 50WV CHIP C 0.10UF K		
C312 C313 C314 C316 C317			CE04LW1A101M CK73GB1H103K CC73GCH1H101J CK73GB1H223K CK73GB1H223K	ELECTRO 100UF 10WV CHIP C 0.010UF K CHIP C 100PF J CHIP C 0.022UF K CHIP C 0.022UF K	5M	
C401,402 C403 C404,405 C406 C501			CK73GB1H221K CC73GCH1H101J CK73GB1H221K CK73GB1H221K CE04LW1C470M	CHIP C 220PF K CHIP C 100PF J CHIP C 220PF K CHIP C 220PF K ELECTRO 47UF 16WV	7EKV	
C502 C503 C504 C505 C506			CE04LW1H0R1M CK73GB1H104K CC73GCH1H080D CC73GCH1H820J CC73GCH1H150J	ELECTRO 0.1UF 50WV CHIP C 0.10UF K CHIP C 8.0PF D CHIP C 82PF J CHIP C 15PF J		
C507 C508,509 C510 C511 C512,513			CK73GB1H104K CK73GB1H562K CK73GB1H681K CK73GB1H473K CK73GB1H104K	CHIP C 0.10UF K CHIP C 5600PF K CHIP C 680PF K CHIP C 0.047UF K CHIP C 0.10UF K		
C514 C514 C515 C515 C516			CC73GCH1H101J CK73GB1H221K CK73GB1H221K CK73GB1H471K CK73GB1H222K	CHIP C 100PF J CHIP C 220PF K CHIP C 220PF K CHIP C 470PF K CHIP C 2200PF K	5M 7EKV 5M 7EKV	
C517 C518 C519 C520 C521			CK73GB1H103K CK73GB1H332K CE04LW1C101M CK73GB1H102K CE04LW1A471M	CHIP C 0.010UF K CHIP C 3300PF K ELECTRO 100UF 16WV CHIP C 1000PF K ELECTRO 470UF 10WV	5M	
C522 C523 C524 C525 C526			CK45FB1H222K CK73GB1H103K CE04LW1C470M CC73GCH1H020C CK73GB1H102K	CERAMIC 2200PF K CHIP C 0.010UF K ELECTRO 47UF 16WV CHIP C 2.0PF C CHIP C 1000PF K	5M	
C527 C528 C529 C530 C531			CK73GB1H102K CK73GB1H392K CK73GB1H102K CK73GB1H223K CK73GB1H104K	CHIP C 1000PF K CHIP C 3900PF K CHIP C 1000PF K CHIP C 0.022UF K CHIP C 0.10UF K		
C532 C533 C534 C535 C536			CE04LW1H010M CK73GB1H102K CE04LW1C470M CE04LW1H0R1M CK73GB1H102K	ELECTRO 1.0UF 50WV CHIP C 1000PF K ELECTRO 47UF 16WV ELECTRO 0.1UF 50WV CHIP C 1000PF K		
C537,538 C539,540 C541,542 C543,544 C545,546			CC73GCH1H080D CE04LW1H3R3M CK73GB1H331J CK73GB1H102K CE04LW1H3R3M	CHIP C 8.0PF D ELECTRO 3.3UF 50WV CHIP C 330PF J CHIP C 1000PF K ELECTRO 3.3UF 50WV		

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9

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C547,548 C549 C550 C551 C552			CK73GB1H152K CE04LW1C101M CK73GB1H104K CE04LW1C101M CK73GB1H104K	CHIP C 1500PF K ELECTRO 100UF 16WV CHIP C 0.10UF K ELECTRO 100UF 16WV CHIP C 0.10UF K	5M 5M	
C553 C554 C554 C555 C556			CE04LW1C470M CK73GB1H102K CK73GB1H152K CK73GB1H103K CK73GB1H102K	ELECTRO 47UF 16WV CHIP C 1000PF K CHIP C 1500PF K CHIP C 0.010UF K CHIP C 1000PF K	7EKV 5M 7EKV 5M	
C556 C557,558 C559 C560 C561			CK73GB1H152K CK73GB1H103K CK73GB1A474K CE04LW1C101M CE04LW1C221M	CHIP C 1500PF K CHIP C 0.010UF K CHIP C 0.47UF K ELECTRO 100UF 16WV ELECTRO 220UF 16WV	7EKV 5M	
C562 C563 C564 C565 C566			CK73GB1H102K CE04LW1C101M CK73GB1H102K CE04LW1C101M CK73GB1H102K	CHIP C 1000PF K ELECTRO 100UF 16WV CHIP C 1000PF K ELECTRO 100UF 16WV CHIP C 1000PF K	7EKV 7EKV 7EKV 7EKV	
C567 C568 C569,570 C571 C572			CK73GB1A474K CK73GB1H223K CC73GCH1H101J CK73GB1H102K CE04LW1C101M	CHIP C 0.47UF K CHIP C 0.022UF K CHIP C 100PF J CHIP C 1000PF K ELECTRO 100UF 16WV	5M 7EKV 7EKV 7EKV	
C573 C574 C575 C578 C579			CE04LW1C221M CK73GB1H102K CE04LW1C221M CK73GB1H102K CK73GB1H104K	ELECTRO 220UF 16WV CHIP C 1000PF K ELECTRO 220UF 16WV CHIP C 1000PF K CHIP C 0.10UF K	5M	
C580 C581 C700,701 C702 C703			CE04LW1C221M CK73GB1H102K CC73GCH1H270J CE04LW1H010M CE04LW1C101M	ELECTRO 220UF 16WV CHIP C 1000PF K CHIP C 27PF J ELECTRO 1.0UF 50WV ELECTRO 100UF 16WV	5M	
C704 C705 C706-708 C710 C711			CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H103K CK73GB1H102K	CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 1000PF K	5M	
C712 C850 C901,902 C905,906 C907,908		*	CE04LW1C101M C90-5778-08 CE04LW1H0R1M CC45FSL1H101J CC45FSL1H080D	ELECTRO 100UF 16WV BACKUP 0.047F 5.5V ELECTRO 0.1UF 50WV CERAMIC 100PF J CERAMIC 8.0PF D	7EKV 7EKV 7EKV	
C909,910 C911,912 C913,914 C915-917 C918,919			CE04LW1A221M CK45FB1H821K CC45FSL1H101J CC45FSL1H220J CC45FCH2H220J	ELECTRO 220UF 10WV CERAMIC 820PF K CERAMIC 100PF J CERAMIC 22PF J CERAMIC 22PF J	7EKV 7EKV 7EKV 7EKV 7EKV	
C920 C921-924 C925,926 C927,928 C929,930			CC45FSL1H220J CC45FSL1H221J CC45FCH2H220J CC45FSL1H020C CC45FCH1H040C	CERAMIC 22PF J CERAMIC 220PF J CERAMIC 22PF J CERAMIC 2.0PF C CERAMIC 4.0PF C	7EKV 7EKV 7EKV 7EKV 7EKV	

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10

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C931-934 C935,936 C937-940 J341			CE04LW1H470M CK45FB1H102K CQ93FMG1H683J CK45FB1H472K	ELECTRO 47UF 50WV CERAMIC 1000PF K MYLAR 0.068UF J CERAMIC 4700PF K	7EKV 7EKV 7EKV	
CN201 CN206 CN502 CP201 CP301		*	E41-0916-08 E41-0913-08 E41-0914-08 E41-0917-08 E41-0918-08	CN.FPC 1.25MM L131524922120 CN.FPC 1.0MM L130623202920 CN.FPC 1.25MM L131103900010 CN.FPC 1.25MM L131837001310 CN.FPC 1.25MM L131837002110	5M	
CP505 CP506 JACK101 JACK102 JACK103		*	E41-0915-08 E41-0912-08 E11-0969-08 E63-1181-08 E21-0041-08	CN.FPC 1.25MM L131113900010 CN.FPC 1.0MM L130623201620 JACK,D3.5 G401035180040 TER,RCA 1PIN G600010003020 SW,PUSH BLOCK G040404204220	7EKV 7EKV 5M	
JACK103 JACK104		*	E21-0042-08 E63-0187-08	TER,BOARD SCREWG612041037310 TER,RCA 6PIN G603060046020	7EKV	
⚠ F102 ⚠ F103 ⚠ F104 ⚠ F104			F04-2025-05 F04-1026-05 F04-2025-05 F06-1222-05	FUSE GLASS TUBEN751222001110 FUSE GLASS TUBEN751221001110 FUSE GLASS TUBEN751222001110 FUSE GLASS TUBEN751221251110	M M K 57EV	
L101,102 L501 L502 T101 T101		*	L39-1303-08 L33-0574-08 L40-2201-05 L07-3263-08 L07-3264-08	COIL,FILTER-INDD330R15000000 COIL,FILTER-INDD330100700520 COIL,FILTER-INDD330220001020 POWER TRANS 8200280150090 POWER TRANS 8200280150100	KM 57E	
⚠ T101 X501 XTAL700 XTAL701		*	L07-3265-08 L77-2413-08 L77-2318-08 L78-0294-05	POWER TRANS 8200280150110 CRYSTAL E800169344510 CRYSTAL E800327680050 RESONATOR,CERAME830100000050	V	
D113,114 J100 J136,137 J142-150 J153-156			RK73GB1J000J RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J	CHIP R 0 J 1/16W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W	5M	
J164 J166 J316 J321-323 J325-327			RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J	CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W		
J328 J329 J330-337 J338 J339			RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J	CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W	7EKV 5M 7EKV	
J340 J342 J343 J344,345 J346			RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73EB2B000J	CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W	7EKV 7EKV	
J347,348 J351 J353 J501 J502,503			RK73EB2B000J RK73EB2B000J RK73EB2B000J RK73GB1J000J RK73GB1J000J	CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/16W CHIP R 0 J 1/16W	7EKV 5M 5M	

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RD-HD5MD/HD7

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11

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
J503			RK73GB1J132J	CHIP R 1.3K J 1/16W	7EKV	
J504			RK73GB1J000J	CHIP R 0 J 1/16W	7EKV	
J504			RK73GB1J272J	CHIP R 2.7K J 1/16W	5M	
J505-507			RK73GB1J000J	CHIP R 0 J 1/16W		
J510,511			RK73GB1J000J	CHIP R 0 J 1/16W	5M	
J512,513			RK73GB1J000J	CHIP R 0 J 1/16W		
J515-520			RK73GB1J000J	CHIP R 0 J 1/16W		
R15-18			R92-1979-08	METAL R 0.22 J 1W	5M	
R19,20			RS14KB3A470J	FL-PROOF RS 47 J 1W	5M	
R28,29			RS14KB3A3R9J	FL-PROOF RS 3.9 J 1W	5M	
R101,102			RK73GB1J100J	CHIP R 10 J 1/16W		
R103,104			RK73GB1J104J	CHIP R 100K J 1/16W		
R105,106			RK73GB1J100J	CHIP R 10 J 1/16W		
R107,108			RK73GB1J104J	CHIP R 100K J 1/16W		
R109,110			RK73GB1J100J	CHIP R 10 J 1/16W		
R111,112			RK73GB1J104J	CHIP R 100K J 1/16W		
R113			RK73GB1J000J	CHIP R 0 J 1/16W		
R114			RK73GB1J103J	CHIP R 10K J 1/16W		
R115			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R116			RK73GB1J473J	CHIP R 47K J 1/16W		
R118			JUMPER	CN.WIRE 1P L045084006040		
R119			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R126,127			R92-1979-08	METAL R 0.22 J 1W		
R128-131			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W		
R132			R92-1979-08	METAL R 0.22 J 1W		
R133			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R136			JUMPER	CN.WIRE 1P L045084006040	M	
R136			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W	57EKV	
R137,138			R92-1979-08	METAL R 0.22 J 1W		
R139,140			RK73GB1J103J	CHIP R 10K J 1/16W		
R141			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R142			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R143			RK73GB1J822J	CHIP R 8.2K J 1/16W		
R144,145			RK73GB1J473J	CHIP R 47K J 1/16W		
R147			JUMPER	CN.WIRE 1P L045084006040		
R150			RK73GB1J473J	CHIP R 47K J 1/16W		
R151			RN14BK2E4700F	RN 470 F 1/4W		
R154			RK73GB1J471J	CHIP R 470 J 1/16W		
R158			RK73GB1J474J	CHIP R 470K J 1/16W		
R159,160			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R161			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R162			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R163			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R166			RK73GB1J122J	CHIP R 1.2K J 1/16W		
R167		*	R92-4591-08	RN 2.2M J 1/4W	K	
R196			RN14BK2C4700F	RN 470 F 1/6W	57EKV	
R196			RN14BK2E0010F	RN 1 F 1/4W	M	
R202,203			RK73GB1J104J	CHIP R 100K J 1/16W	5M	
R204,205			RK73GB1J153J	CHIP R 15K J 1/16W	5M	
R206,207			RK73GB1J103J	CHIP R 10K J 1/16W	5M	
R208,209			RK73GB1J682J	CHIP R 6.8K J 1/16W	5M	
R210,211			RK73GB1J153J	CHIP R 15K J 1/16W	5M	
R212,213			RK73GB1J222J	CHIP R 2.2K J 1/16W	5M	
R214-217			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R218,219			RK73GB1J123J	CHIP R 12K J 1/16W		

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12

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R220,221			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R222,223			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R224,225			RK73GB1J682J	CHIP R 6.8K J 1/16W		
R226,227			RK73GB1J104J	CHIP R 100K J 1/16W		
R228,229			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R230		R92-1979-08	METAL R 0.22 J 1W	5M		
R231,232		RK73GB1J561J	CHIP R 560 J 1/16W			
R233,234		RK73GB1J271J	CHIP R 270 J 1/16W			
R236		RK73GB1J221J	CHIP R 220 J 1/16W	5M		
R237		RK73GB1J122J	CHIP R 1.2K J 1/16W	5M		
R238,239		RK73GB1J561J	CHIP R 560 J 1/16W	5M		
R240,241		RK73GB1J101J	CHIP R 100 J 1/16W	5M		
R242		JUMPER	7EKV			
R243,244		RK73GB1J334J	CHIP R 330K J 1/16W	7EKV		
R247		RK73GB1J101J	CHIP R 100 J 1/16W	5M		
R248		RK73GB1J101J	CHIP R 100 J 1/16W			
R249		RK73GB1J101J	CHIP R 100 J 1/16W	5M		
R250		RK73GB1J681J	CHIP R 680 J 1/16W	5M		
R251		RK73GB1J682J	CHIP R 6.8K J 1/16W	5M		
R252		RK73GB1J100J	CHIP R 10 J 1/16W	5M		
R253		RK73GB1J682J	CHIP R 6.8K J 1/16W	5M		
R301,302		RK73GB1J101J	CHIP R 100 J 1/16W			
R304-307		RK73GB1J561J	CHIP R 560 J 1/16W			
R308		RK73GB1J273J	CHIP R 270K J 1/16W			
R310,311		RK73GB1J103J	CHIP R 10K J 1/16W			
R313		RK73GB1J471J	CHIP R 470 J 1/16W			
R314		RK73GB1J331J	CHIP R 330 J 1/16W			
R315		RK73GB1J181J	CHIP R 180 J 1/16W			
R317		RK73GB1J103J	CHIP R 10K J 1/16W			
R318,319		RK73GB1J182J	CHIP R 1.8K J 1/16W			
R320		RK73GB1J242J	CHIP R 2.4K J 1/16W			
R321		RK73GB1J362J	CHIP R 3.6K J 1/16W			
R322		RK73GB1J562J	CHIP R 5.6K J 1/16W	7EKV		
R323		RK73GB1J103J	CHIP R 10K J 1/16W	7EKV		
R324		RK73GB1J223J	CHIP R 22K J 1/16W	7EKV		
R325,326		RK73GB1J221J	CHIP R 220 J 1/16W			
R328,329		RK73GB1J182J	CHIP R 1.8K J 1/16W			
R330		RK73GB1J242J	CHIP R 2.4K J 1/16W			
R331		RK73GB1J362J	CHIP R 3.6K J 1/16W			
R332		RK73GB1J562J	CHIP R 5.6K J 1/16W			
R333		RK73GB1J103J	CHIP R 10K J 1/16W			
R334		RK73GB1J223J	CHIP R 22K J 1/16W			
R335		RK73GB1J221J	CHIP R 220 J 1/16W			
R336		RK73GB1J182J	CHIP R 1.8K J 1/16W			
R337		RK73GB1J103J	CHIP R 10K J 1/16W			
R338		RK73GB1J182J	CHIP R 1.8K J 1/16W			
R339		RK73GB1J242J	CHIP R 2.4K J 1/16W			
R340		RK73GB1J103J	CHIP R 10K J 1/16W	7EKV		
R341		RK73GB1J562J	CHIP R 5.6K J 1/16W			
R342		RK73GB1J362J	CHIP R 3.6K J 1/16W			
R344		RK73GB1J223J	CHIP R 22K J 1/16W	7EKV		
R346		RK73GB1J471J	CHIP R 470 J 1/16W			
R413		RK73GB1J181J	CHIP R 180 J 1/16W	5M		
R414		RK73GB1J101J	CHIP R 100 J 1/16W	5M		
R415,416		RK73GB1J332J	CHIP R 3.3K J 1/16W	5M		

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RD-HD5MD/HD7

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13

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R424			RK73GB1J221J	CHIP R 220 J 1/16W	5M	
R429			RK73GB1J100J	CHIP R 10 J 1/16W		
R430-432			RK73GB1J101J	CHIP R 100 J 1/16W	5M	
R433			RK73GB1J473J	CHIP R 47K J 1/16W		
R434			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R435			RK73GB1J561J	CHIP R 560 J 1/16W		
R436			RK73GB1J473J	CHIP R 47K J 1/16W		
R437			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R438			RK73GB1J101J	CHIP R 100 J 1/16W		
R439-442			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R501			RK73GB1J682J	CHIP R 6.8K J 1/16W	5M	
R501			RK73GB1J750J	CHIP R 75 J 1/16W	7EKV	
R502			RK73GB1J682J	CHIP R 6.8K J 1/16W	5M	
R502			RK73GB1J750J	CHIP R 75 J 1/16W	7EKV	
R503			RK73GB1J682J	CHIP R 6.8K J 1/16W	5M	
R503			RK73GB1J750J	CHIP R 75 J 1/16W	7EKV	
R504			RK73GB1J272J	CHIP R 2.7K J 1/16W	5M	
R504			RK73GB1J750J	CHIP R 75 J 1/16W	7EKV	
R505			RK73GB1J272J	CHIP R 2.7K J 1/16W	7EKMV	
R506			RK73GB1J132J	CHIP R 1.3K J 1/16W	7EKV	
R506			RK73GB1J562J	CHIP R 5.6K J 1/16W	5M	
R507			RK73GB1J682J	CHIP R 6.8K J 1/16W	5M	
R508			RK73GB1J4R7J	CHIP R 4.7 J 1/16W		
R509			RK73GB1J821J	CHIP R 820 J 1/16W		
R510,511			RK73GB1J362J	CHIP R 3.6K J 1/16W		
R512			RK73GB1J471J	CHIP R 470 J 1/16W		
R513			RK73GB1J474J	CHIP R 470K J 1/16W		
R514			RK73GB1J334J	CHIP R 330K J 1/16W		
R515			RK73GB1J104J	CHIP R 100K J 1/16W		
R516			RK73GB1J363J	CHIP R 36K J 1/16W	7EKV	
R516			RK73GB1J683J	CHIP R 68K J 1/16W	5M	
R517			RK73GB1J333J	CHIP R 33K J 1/16W		
R518			RK73GB1J392J	CHIP R 3.9K J 1/16W		
R519			RK73GB1J623J	CHIP R 62K J 1/16W		
R520			RK73GB1J474J	CHIP R 470K J 1/16W		
R522			RK73GB1J000J	CHIP R 0 J 1/16W	7EKV	
R522			RK73GB1J101J	CHIP R 100 J 1/16W	5M	
R524			RK73GB1J474J	CHIP R 470K J 1/16W		
R525			RK73GB1J103J	CHIP R 10K J 1/16W		
R526,527			RK73GB1J224J	CHIP R 220K J 1/16W		
R528			RK73GB1J753J	CHIP R 75K J 1/16W		
R529			RK73GB1J103J	CHIP R 10K J 1/16W	5M	
R529			RK73GB1J123J	CHIP R 12K J 1/16W	7EKV	
R530			RK73GB1J103J	CHIP R 10K J 1/16W	5M	
R530			RK73GB1J123J	CHIP R 12K J 1/16W	7EKV	
R531			RK73GB1J183J	CHIP R 18K J 1/16W		
R532			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R533			RK73GB1J124J	CHIP R 120K J 1/16W	7EKV	
R533			RK73GB1J683J	CHIP R 68K J 1/16W	5M	
R535			RK73GB1J393J	CHIP R 39K J 1/16W	5M	
R535			RK73GB1J683J	CHIP R 68K J 1/16W	7EKV	
R536			RK73GB1J472J	CHIP R 4.7K J 1/16W	5M	
R536			RK73GB1J622J	CHIP R 6.2K J 1/16W	7EKV	
R539			RK73GB1J273J	CHIP R 27K J 1/16W		
R542			RK73GB1J224J	CHIP R 220K J 1/16W		

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14

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R543			RK73GB1J473J	CHIP R 47K J 1/16W		
R544			RK73GB1J563J	CHIP R 56K J 1/16W		
R545			RK73GB1J823J	CHIP R 82K J 1/16W		
R546			RK73GB1J563J	CHIP R 56K J 1/16W		
R547			RK73GB1J181J	CHIP R 180 J 1/16W		
R548			RK73GB1J221J	CHIP R 220 J 1/16W		
R549			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R551			RK73GB1J560J	CHIP R 56 J 1/16W		
R552			RK73GB1J103J	CHIP R 10K J 1/16W		
R555			RK73GB1J224J	CHIP R 220K J 1/16W		
R558-560			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R562			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R563			R92-1978-08	FUSE METAL 2.2 J 1/2W		
R567			R92-1978-08	FUSE METAL 2.2 J 1/2W		
R569-576			RK73GB1J103J	CHIP R 10K J 1/16W		
R577,578			RK73GB1J223J	CHIP R 22K J 1/16W		
R579			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R580			RK73GB1J474J	CHIP R 470K J 1/16W		
R581,582			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R583			RK73GB1J243J	CHIP R 24K J 1/16W	7EKV	
R584			RK73GB1J562J	CHIP R 5.6K J 1/16W	7EKV	
R585-587			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R588			RK73GB1J223J	CHIP R 22K J 1/16W	7EKV	
R589,590			RK73GB1J105J	CHIP R 1.0M J 1/16W	7EKV	
R591-595			RK73GB1J101J	CHIP R 100 J 1/16W	7EKV	
R598			RK73GB1J562J	CHIP R 5.6K J 1/16W	7EKV	
R599,600			RK73GB1J104J	CHIP R 100K J 1/16W		
R700			RK73GB1J473J	CHIP R 47K J 1/16W		
R701-705			RK73GB1J561J	CHIP R 560 J 1/16W		
R706			RK73GB1J101J	CHIP R 100 J 1/16W		
R707			RK73GB1J225J	CHIP R 2.2M J 1/16W		
R708			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R709			RK73GB1J561J	CHIP R 560 J 1/16W		
R710			RK73GB1J561J	CHIP R 560 J 1/16W	57E	
R711-713			RK73GB1J561J	CHIP R 560 J 1/16W		
R714			RK73GB1J561J	CHIP R 560 J 1/16W	7EKMV	
R715			RK73GB1J561J	CHIP R 560 J 1/16W		
R717			RK73GB1J561J	CHIP R 560 J 1/16W		
R718			RK73GB1J561J	CHIP R 560 J 1/16W	57E	
R719			RK73GB1J561J	CHIP R 560 J 1/16W		
R720			RK73GB1J561J	CHIP R 560 J 1/16W	5M	
R721			RK73GB1J103J	CHIP R 10K J 1/16W	5M	
R722-724			RK73GB1J473J	CHIP R 47K J 1/16W		
R727			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R729,730			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R731,732			RK73GB1J561J	CHIP R 560 J 1/16W		
R733,734			RK73GB1J561J	CHIP R 560 J 1/16W	5M	
R735			RK73GB1J561J	CHIP R 560 J 1/16W		
R739-741			RK73GB1J561J	CHIP R 560 J 1/16W		
R743			RK73GB1J561J	CHIP R 560 J 1/16W		
R744			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R745			RK73GB1J561J	CHIP R 560 J 1/16W		
R746,747			RK73GB1J561J	CHIP R 560 J 1/16W	5M	
R748,749			RK73GB1J561J	CHIP R 560 J 1/16W		
R751-754			RK73GB1J561J	CHIP R 560 J 1/16W	5M	

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15

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R756			RK73GB1J561J	CHIP R	560 J 1/16W	5M
R757			RK73GB1J561J	CHIP R	560 J 1/16W	5M
R758,759			RK73GB1J561J	CHIP R	560 J 1/16W	
R761			RK73GB1J561J	CHIP R	560 J 1/16W	
R764-771			RK73GB1J473J	CHIP R	47K J 1/16W	5M
R772,773			RK73GB1J473J	CHIP R	47K J 1/16W	
R774			RK73GB1J153J	CHIP R	15K J 1/16W	5M
R775-777			RK73GB1J561J	CHIP R	560 J 1/16W	
R783			RK73GB1J473J	CHIP R	47K J 1/16W	
R784-786			RK73GB1J561J	CHIP R	560 J 1/16W	
R789,790			RK73GB1J561J	CHIP R	560 J 1/16W	
R791			RK73GB1J473J	CHIP R	47K J 1/16W	
R792,793			RK73GB1J561J	CHIP R	560 J 1/16W	
R794,795			RK73GB1J561J	CHIP R	560 J 1/16W	7EKV
R796			RK73GB1J561J	CHIP R	560 J 1/16W	
R801			RK73GB1J561J	CHIP R	560 J 1/16W	
R802,803			RK73GB1J103J	CHIP R	10K J 1/16W	
R804			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R805			RK73GB1J104J	CHIP R	100K J 1/16W	
R806			RK73GB1J103J	CHIP R	10K J 1/16W	
R807			RK73GB1J102J	CHIP R	1.0K J 1/16W	
R808,809			RK73GB1J561J	CHIP R	560 J 1/16W	
R810			RK73GB1J121J	CHIP R	120 J 1/16W	
R811,812			RK73GB1J473J	CHIP R	47K J 1/16W	
R820			RK73GB1J561J	CHIP R	560 J 1/16W	
R826			RK73GB1J473J	CHIP R	47K J 1/16W	57E
R850			RK73GB1J473J	CHIP R	47K J 1/16W	
R855			RK73GB1J512J	CHIP R	5.1K J 1/16W	
R929-932			RS14KB3A221J	FL-PROOF RS	220 J 1W	7EKV
R937-942			RN14BK2E220J	RN	22 J 1/4W	7EKV
R949,950			RS14KB3A100J	FL-PROOF RS	10 J 1W	7EKV
R951,952			RN14BK2E220J	RN	22 J 1/4W	7EKV
VR301		*	T99-0686-08	SW,ENCODER	G121162401200	
VR901,902			R12-0604-05	VR,SEMI CERMET	C544101015100	7EKV
VR903,904			R12-0606-05	VR,SEMI CERMET	C544331015010	7EKV
RL101			S76-0076-05	RELAY	G680242000000	
RL103			S76-0090-05	RELAY	G680090502010	
SW101			S62-0098-08	SW,SLIDE	G060040550010	M
SW301-304		*	S70-0105-08	SW,TACT	G180000270010	
SW305		*	S70-0105-08	SW,TACT	G180000270010	5M
SW306-308		*	S70-0105-08	SW,TACT	G180000270010	7EKV
SW311-318		*	S70-0105-08	SW,TACT	G180000270010	
SW319-324		*	S70-0105-08	SW,TACT	G180000270010	5M
SW325,326		*	S70-0105-08	SW,TACT	G180000270010	7EKV
D1,2			1N4148	D,SWITCHING	K000414803520	5M
D102			D2SBA60	D,RECTIFIER BRIK047400300020		
D105			1SS355	D,SWITCHING CHIK005035500010		
D106			D2SBA60	D,RECTIFIER BRIK047400300020		
D107			1SS355	D,SWITCHING CHIK005035500010		
D110,111			1SS355	D,SWITCHING CHIK005035500010		
D112			1N4148	D,SWITCHING K000414803520		
D115			1SS355	D,SWITCHING CHIK005035500010		
D116			1N4007	D,SWITCHING K000400700520		
D117,118			1N4148	D,SWITCHING K000414803520		

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16

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D190-193			1N4007	D,SWITCHING K000400700520		
D200			1N4148	D,SWITCHING K000414803520	5M	
D201-203			1SS355	D,SWITCHING CHIK005035500010	5M	
D501,502			1N4148	D,SWITCHING K000414803520		
D503			KDS226	D,SWITCHING CHIK005022600020	7EKV	
D504			1SS355	D,SWITCHING CHIK005035500010		
D706			KDS181	D,SWITCHING CHIK005018100010		
D708			1SS355	D,SWITCHING CHIK005035500010		
D901-904			1N4148	D,SWITCHING K000414803520	7EKV	
IC1			STK402-030	IC(2CH AF POWER AMP)02030000	5	
IC1			STK402-040	IC,HYBRID J100402040010	M	
IC101,102			KIA7805API	IC(VOLTAGE REGULATOR)0500110		
IC103			SI-3050J	IC(REGULATOR)ULJ126305000010		
IC104			KIA7809API	IC(ANALOGUE IC)J126780900020		
IC105			KIA7912PI	IC(ANALOGUE IC)J126791200060		
IC106,107			KIA7812PI	IC,LINEAR-REGULJ126781200040	M	
IC108			KIA7812PI	IC,LINEAR-REGULJ126781200040		
IC109			KIA7805API	IC(VOLTAGE REGULATOR)0500110		
IC201			NJM4565MD	IC(OP AMP X2) J121456500040	5M	
IC203			M62429P	IC(ELECTRIC VOLUME)624290010	5M	
IC204			M61510FP	IC(SOUND CONTROLLER)15100010		
IC205			BA6138	IC(ROOT AMP X2)J121613800010	7EKV	
IC206			74LCX08	IC,LOGIC J040740800170	5M	
IC301			M66005-001AFP	IC,LINEAR-DRIVEJ127660050020		
IC501			AN2200A	IC,OPTICAL-RF AJ030220000000		
IC502			MN6627482WA	IC,OPTICAL-DSP J031662740000		
IC503			BA5983FM	IC(ANALOGUE IC)J127598300000		
IC504			BA6956AN	IC,LINEAR-DRIVEJ127695600010		
IC505			BA6956AN	IC,LINEAR-DRIVEJ127695600010	5M	
IC506			KAN06	IC(D.R.I.V.E)FIJ047030000020	7EKV	
IC507			PCM1742	IC,LOGIC-D/A COJ042174200010	7EKV	
IC508			NJM4565MD	IC(OP AMP X2) J121456500040		
IC700		*	M30624MGA149FP	IC,CPU MICRO PRJ020306241060	5M	
IC700		*	M30624MGA150FP	IC,CPU MICRO PRJ020306241090	7EKV	
IC701			KIA7042P	IC,LINEAR-RESETJ125704200010		
Q1,2			KTC2874B	SEMI,TR/GE NPN J502287400010	5M	
Q3,4			KSC1845F	SEMI,TR/GE NPN J5021845F0000	5M	
Q101			2SA1037K	SEMI,CHIP TR/PNJ5201037K0210		
Q102			KRC102S	SEMI,CHIP TR/NPJ522010200210		
Q104			KSA916-Y	SEMI,TR/GE PNP J5000916Y0050		
Q106			KSA992F-X	SEMI,TR/GE PNP J5000992F0050		
Q107,108			KSC1845F	SEMI,TR/GE NPN J5021845F0000		
Q109			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210		
Q110			2SC1740SR	SEMI,TR/GE NPN J5021740S0010	M	
Q111			DTA114ES	SEMI,BRT/PNP RAJ6000114E0010	M	
Q112			KSA992F-X	SEMI,TR/GE PNP J5000992F0050		
Q113			2SC1740SR	SEMI,TR/GE NPN J5021740S0010		
Q200			KRA102M	SEMI,BRT/PNP RAJ6002202M0010	5M	
Q201			KRC102M	SEMI,BRT/PNP RCJ6020102M0010		
Q202			KSA916-Y	SEMI,TR/GE PNP J5000916Y0050		
Q203			KRA102S	SEMI,CHIP TR/PNJ520010200210		
Q301-303			KRC103S	SEMI,CHIP TR/NPJ522010300210		
Q501			KTA1273Y	SEMI,TR/GE PNP J5001273Y0050		
Q502,503			KRA102S	SEMI,CHIP TR/PNJ520010200210		
Q504			KTC3875Y	SEMI,CHIP TR/NPJ5223875Y0210		

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PARTS LIST

RD-HD5MD/HD7

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17

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q505 Q506,507 Q508 Q700 Q701			KRC102S KRA102S KRC102S KTC3875Y KTC3875Y	SEMI,CHIP TR/NPJ522010200210 SEMI,CHIP TR/PNJ520010200210 SEMI,CHIP TR/NPJ522010200210 SEMI,CHIP TR/NPJ5223875Y0210 SEMI,CHIP TR/NPJ5223875Y0210	7EKV	
Q702 Q901,902 Q903-906 Q907-910 Q911-916			KTC3875Y KTC2874B 2SK364(BL) KSC1845F KSA992F-X	SEMI,CHIP TR/NPJ5223875Y0210 SEMI,TR/GE NPN J502287400010 SEMI,FET/P 2SK J5410364B0000 SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE PNP J5000992F0050	7EKV 7EKV 7EKV 7EKV 7EKV	
Q917,918 Q919 Q920 Q921,922 Q923	Δ		KSC1845F TRAIR2N TRAIR2P KSC1845F TRAIR2P	SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE NPN J503150000030 SEMI,TR/GE PNP J501150000030 SEMI,TR/GE NPN J5021845F0000 SEMI,TR/GE PNP J501150000030	7EKV 7EKV 7EKV 7EKV 7EKV	
Q924 RM301 ZD103 ZD104 ZD105	Δ	*	TRAIR2N W02-2995-08 MTZJ24B MTZJ13B MTZJ24B	SEMI,TR/GE NPN J503150000030 MODULE,REMOCON E940633800000 D,ZENER K06024R044520 D,ZENER D,ZENER K06024R044520	7EKV	
ZD200 ZD201 ZD301			MTZJ5.1B MTZJ5.1B MTZJ6.2B	D,ZENER K06005R144520 D,ZENER K06005R144520 D,ZENER K06006R244520	5M	
JACK200 JACK201			W02-2802-05 W02-2803-05	MODULE E100J40000010 MODULE E100J30000010	5M	
HEADPHONE PCB						
C156,157			CK73GB1H221K	CHIP C 220PF K		
R152,153 R161,162 R165,166			RS14KB3A100J RN14BK2E331J RN14BK2E680J	FL-PROOF RS 10 J 1W RN 330 J 1/4W RN 68 J 1/4W		
Q110,111			2SC4213(B)	SEMI,CHIP TR/NPJ5222875B0010		
MD CONTROL PCB						
C1 C1 C2 ,3 C4 C5			CK73GF1E104Z CK73GF1H104Z CE32AP0J101M CK73GF1A105Z CK73GF1E104Z	CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP EL 100UF 6.3WV CHIP C 1.0UF Z CHIP C 0.10UF Z		
C5 C7 C8 C8 C9			CK73GF1H104Z CK73GB0J474K CK73GF1E104Z CK73GF1H104Z CK73GB1H472K	CHIP C 0.10UF Z CHIP C 0.47UF K CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 4700PF K		
C10 C11 C12 C13 C13			CC73GCH1H101J CK73FB1A225K CK73GB1E153K CK73GF1E104Z CK73GF1H104Z	CHIP C 100PF J CHIP C 2.2UF K CHIP C 0.015UF K CHIP C 0.10UF Z CHIP C 0.10UF Z		
C14 C15 C15 C18 C19 -27			CC73GCH1H100D CK73GF1E104Z CK73GF1H104Z CK73GB1E103K CK73GF1E104Z	CHIP C 10PF D CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 0.010UF K CHIP C 0.10UF Z		

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18

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C19 -27 C30 C31 C32 C35			CK73GF1H104Z CE32AP0J220M CE32AP0J101M CK73GB1H222K C92-0232-05	CHIP C 0.10UF Z CHIP EL 22UF 6.3WV CHIP EL 100UF 6.3WV CHIP C 2200PF K ELECTRO 10UF 16WV		
C36 C36 C37 C38 C38			CK73GF1E104Z CK73GF1H104Z CK73GB1H222K CK73GF1E104Z CK73GF1H104Z	CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 2200PF K CHIP C 0.10UF Z CHIP C 0.10UF Z		
C39 C40 C41 C42 ,43 C45			C92-0232-05 C91-1597-05 C93-0032-05 CK73GB1H221K CE32AP0J101M	ELECTRO 10UF 16WV CERAMIC 4.7UF Z CHIP C 10UF 10WV CHIP C 220PF K CHIP EL 100UF 6.3WV		
C46 -48 C46 -48 C51 C52 C52			CK73GF1E104Z CK73GF1H104Z C92-0232-05 CK73GF1E104Z CK73GF1H104Z	CHIP C 0.10UF Z CHIP C 0.10UF Z ELECTRO 10UF 16WV CHIP C 0.10UF Z CHIP C 0.10UF Z		
C54 C55 C56 C57 C58			CK73GB1E223K CK73GB1H102K CK73GF1A105Z CK73GB1C104K CK73GB1E103K	CHIP C 0.022UF K CHIP C 1000PF K CHIP C 1.0UF Z CHIP C 0.10UF K CHIP C 0.010UF K		
C59 C60 C62 C63 C64			CK73GB1E223K CE32AP1C100M CK73GB1C104K CK73GB1E103K CK73GB1E223K	CHIP C 0.022UF K CHIP EL 10UF 16WV CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 0.022UF K		
C65 C66 C67 C68 C69			CK73GB1A224K CK73GF1A105Z CK73GB1H472K CK73GB1C683K CK73GB1E223K	CHIP C 0.22UF K CHIP C 1.0UF Z CHIP C 4700PF K CHIP C 0.068UF K CHIP C 0.022UF K		
C71 ,72 C71 ,72 C73 ,74 C75 C75			CK73GF1E104Z CK73GF1H104Z CK73GF1A105Z CK73GF1E104Z CK73GF1H104Z	CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 1.0UF Z CHIP C 0.10UF Z CHIP C 0.10UF Z		
C76 C80 C81 C81 C84 ,85			CK73GB0J474K CE32AP1A101M CK73GF1E104Z CK73GF1H104Z CC73GCH1H821J	CHIP C 0.47UF K CHIP EL 100UF 10WV CHIP C 0.10UF Z CHIP C 0.10UF Z CHIP C 820PF J		
C86 ,87 C89 C89			CC73GCH1H391J CK73GF1E104Z CK73GF1H104Z	CHIP C 390PF J CHIP C 0.10UF Z CHIP C 0.10UF Z		
CN2 CN3			E40-8074-05 E40-8687-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
L1 -5 L1 -5 L6 ,7 L8 L8			L79-1216-05 L92-0075-05 L92-0562-05 L79-1216-05 L92-0075-05	LINE FILTER FERRITE CHIP FERRITE CHIP LINE FILTER FERRITE CHIP		

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19

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
X1			L77-2328-05	CRYSTAL OSC (16.9344MHZ)		
R1			RK73GB1J3R3J	CHIP R 3.3 J 1/16W		
R3 -6			RK73GB1J221J	CHIP R 220 J 1/16W		
R11			RK73GB1J221J	CHIP R 220 J 1/16W		
R12			RK73GB1J3R3J	CHIP R 3.3 J 1/16W		
R14			RK73GB1J104J	CHIP R 100K J 1/16W		
R15			RK73GB1J684J	CHIP R 680K J 1/16W		
R16			RK73GB1J101J	CHIP R 100 J 1/16W		
R17			RK73GB1J331J	CHIP R 330 J 1/16W		
R18			RK73GB1J333J	CHIP R 33K J 1/16W		
R19			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R20			RK73GB1J151J	CHIP R 150 J 1/16W		
R21 ,22			RK73GB1J103J	CHIP R 10K J 1/16W		
R23			RK73GB1J104J	CHIP R 100K J 1/16W		
R24			RK73GB1J101J	CHIP R 100 J 1/16W		
R25 ,26			RK73GB1J470J	CHIP R 47 J 1/16W		
R27 -30			RK73GB1J101J	CHIP R 100 J 1/16W		
R32			RK73EB2B101J	CHIP R 100 J 1/8W		
R35			RK73GB1J1R0J	CHIP R 1 J 1/16W		
R36 ,37			RK73GB1J101J	CHIP R 100 J 1/16W		
R39 ,40			RK73GB1J471J	CHIP R 470 J 1/16W		
R42			RK73GB1J123J	CHIP R 12K J 1/16W		
R43			RK73GB1J133J	CHIP R 13K J 1/16W		
R46			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R47 ,48			RK73GB1J473J	CHIP R 47K J 1/16W		
R49			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R50			RK73GB1J101J	CHIP R 100 J 1/16W		
R51			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R52 -55			RK73GB1J474J	CHIP R 470K J 1/16W		
R56 -58			RK73GB1J473J	CHIP R 47K J 1/16W		
R59 ,60			RK73GB1J103J	CHIP R 10K J 1/16W		
R62			RK73GB1J473J	CHIP R 47K J 1/16W		
R64			RK73GB1J473J	CHIP R 47K J 1/16W		
R65 ,66			RK73GB1J101J	CHIP R 100 J 1/16W		
R67			RK73GB1J473J	CHIP R 47K J 1/16W		
R68			RK73GB1J123J	CHIP R 12K J 1/16W		
R70			RK73GB1J3R3J	CHIP R 3.3 J 1/16W		
R70			RK73GB1J363J	CHIP R 36K J 1/16W		
R71			RK73GB1J563J	CHIP R 56K J 1/16W		
R72			RK73GB1J133J	CHIP R 13K J 1/16W		
R73			RK73GB1J153J	CHIP R 15K J 1/16W		
R75 ,76			RK73GB1J104J	CHIP R 100K J 1/16W		
R77			RK73GB1J103J	CHIP R 10K J 1/16W		
R78			RK73GB1J101J	CHIP R 100 J 1/16W		
R79			RK73GB1J561J	CHIP R 560 J 1/16W		
R80			RK73GB1J101J	CHIP R 100 J 1/16W		
R82			RK73GB1J101J	CHIP R 100 J 1/16W		
R85			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R86			RK73GB1J474J	CHIP R 470K J 1/16W		
R87			RK73GB1J335J	CHIP R 3.3M J 1/16W		
R88			RK73GB1J474J	CHIP R 470K J 1/16W		
R89			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R93			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R94			RK73GB1J681J	CHIP R 680 J 1/16W		
R95			RK73GB1J472J	CHIP R 4.7K J 1/16W		

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20

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R96			RK73GB1J104J	CHIP R 100K J 1/16W		
R97			R92-1853-05	CHIP-RN 1 1/4W		
R98			RK73EB2B2R2J	CHIP R 2.2 J 1/8W		
R99			RK73GB1J223J	CHIP R 22K J 1/16W		
R100			RK73GB1J393J	CHIP R 39K J 1/16W		
R101-103			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R104			RK73GB1J393J	CHIP R 39K J 1/16W		
R105			RK73GB1J103J	CHIP R 10K J 1/16W		
R117,118			RK73GB1J513J	CHIP R 51K J 1/16W		
R119,120			RK73GB1J104J	CHIP R 100K J 1/16W		
R121			RK73GB1J333J	CHIP R 33K J 1/16W		
R122,123			RK73GB1J104J	CHIP R 100K J 1/16W		
R124			RK73GB1J333J	CHIP R 33K J 1/16W		
R129			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R130,131			R92-1854-05	RN 2.2 K 1/2W		
W1 ,2			R92-0679-05	CHIP R 0 OHM		
W4 -6			R92-0679-05	CHIP R 0 OHM		
W7 ,8			R92-1252-05	CHIP R 0 OHM J 1/16W		
W10 ,11			R92-1252-05	CHIP R 0 OHM J 1/16W		
W12 -14			R92-0679-05	CHIP R 0 OHM		
W16			R92-0679-05	CHIP R 0 OHM		
W18			R92-0679-05	CHIP R 0 OHM		
W19			R92-1252-05	CHIP R 0 OHM J 1/16W		
S1			S68-0133-05	PUSH SWITCH		
S2 ,3			S64-0052-05	LEVER SWITCH		
S4			S68-0145-05	PUSH SWITCH		
S5			S64-0052-05	LEVER SWITCH		
D1 ,2			FS1J6TP	DIODE		
D3			MA111	DIODE		
IC1			CXD2664R	IC(DIGITAL SIGNAL PROCESSOR)		
IC2			CXA2523AR	IC(RF SERVO)		
IC2			CXA2523AR*	IC		
IC3			HD6432225N05FA	IC		
IC4			BA5815FM	IC(ANALOGUE IC)		
IC5			A42L2604-45-Q	IC		
IC5			IC41LV4400250T	IC(MEMORY IC)		
IC5			M51V16405D50T	IC(MEMORY IC)		
Δ IC6			RC1117S33T	IC		
IC7			BR24C02F	IC(E2PROM)		
IC7			CAT24WC02JI	IC		
IC7			HT24LC02-8S	IC(MEMORY IC)		
IC7			S-24C02BFJ-TB	IC(MEMORY IC)		
IC8			BD7910FV	IC(MD RECORDING HEAD COIL)		
Δ IC9			XC6201P262MR	IC		
IC10			AK4550VT	IC(A/D D/A CONVERTER)		
IC11			CY27022SC	IC		
Q1			UMW1N	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q3			2SB798-DL	TRANSISTOR		
Q4			DTA144EUA	TRANSISTOR		
Q5 ,6			DTC114YUA	TRANSISTOR		
Q7			DTA124EUA	TRANSISTOR		
Q10			DTC124EUA	TRANSISTOR		
Q11			DTA144EUA	TRANSISTOR		
Q12			2SB1412F5(Q,R)	TRANSISTOR		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas Δ indicates safety critical components .

PARTS LIST

RD-HD5MD/HD7

RD-HD5MD/HD7

SPECIFICATIONS

Main unit

[Amplifier section]

(For U.S.A. and Canada)

Rated output power during STEREO operation (FTC)

22 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.

(For U.K. and Europe)

Effective output power during STEREO operation

(1 kHz, 10% T.H.D., at 6 W) 35 W + 35 W

Rated output power during STEREO operation (DIN)

(1 kHz, 0.7% T.H.D., at 6 Ω) 25W + 25 W

Total harmonic distortion

(1 kHz, 17.5W, at 6 Ω) 0.008%

Frequency response 30Hz ~ 100kHz (+0dB, -3dB)

[CD player section]

Laser Semiconductor laser

D/A Conversion

1 Bit D/A converter achieving a 24bit resolution

Over sampling 8 fs (352.8 kHz)

Frequency response 20Hz ~ 20kHz (+0.5dB, -1dB)

Signal to noise ratio 98dB

Digital output

Optical -15dBm ~ -21dBm

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

AM tuner section

(For U.S.A. and Canada)

Tuning frequency range 530 kHz ~ 1,700 kHz

(For U.K. and Europe)

Tuning frequency range 531 kHz ~ 1,602 kHz

[General]

Power consumption 80 W

Dimensions W : 220 mm (8-11/16")

H : 145 mm (5-11/16")

D : 356 mm (14")

Weight (net) 5.9 kg (13.0 lb)

Speakers

Enclosure Bass-reflex type (Magnetically shielded)

Speaker configuration

Woofer 120 mm, cone type

Tweeter 25 mm, dome type

Impedance 6 Ω

Maximum input power 60 W

Dimensions W: 155 mm (6-1/8")

H : 270 mm (10-5/8")

D : 263 mm (10-3/8")

Weight (net) 4.5kg (9.9 lb) (1 piece)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
RD-HD5MD		-	-	-	5	-	-	-	-
RD-HD7		-	-	-	7	E	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
RD-HD5MD		-	-	-	-	-	-	M	
RD-HD7		-	-	-	-	V	K	-	

RD-HD5MD/HD7

KENWOOD CORPORATION

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

KENWOOD U.S.A. CORPORATION

P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Alameda Ministro Rocha Azevedo No. 456, Edificio Jaú, 10o Andar, Cerqueira César, Cep 0140-001, São Paulo-SP-Brasil

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD18 9EB, United Kingdom

KENWOOD ELECTRONICS BELGIUM N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)

16 Giffnock Avenue, North Ryde, N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand